

Natural Gas Monthly

January 2000

Energy Information Administration
Office of Oil and Gas
U.S. Department of Energy
Washington, DC 20585

This report is available on the WEB at:

[Http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/natural_gas_monthly/ngm.html](http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/natural_gas_monthly/ngm.html)

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should be attributed to the Energy Information Administration and should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

Natural Gas Publications and Databases Available Electronically

All of the natural gas publications are available electronically on the EIA website. Certain natural gas data are also provided in database formats on the web site. The table below is a guide to the major natural gas products.

Product	Format	Contents
Publications		
<i>Natural Gas Weekly Market Update</i>	PDF	Analysis of current price, supply and storage data
<i>Natural Gas Monthly</i>	PDF	Monthly supply, disposition, and price data
<i>Natural Gas Annual</i>	PDF	Annual supply, disposition, and price data
<i>Historical Natural Gas Annual</i>	PDF	Historical annual supply, disposition, and price data from 1930 - 1997
<i>Issues and Trends</i>	PDF	Comprehensive analysis of growth and change in the natural gas industry
<i>U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves</i>	PDF	Proved reserves in the United States
<i>Oil and Gas Field Code Master List</i>	PDF	Listing of U.S. oil and gas field names
<u>Databases</u>		
Monthly Data	TXT	Tables 1-6, and 9 from the <i>Natural Gas Monthly</i>
Historical Monthly Data	EXE	Consumption and price data, 1984-1994; 1995-present
Annual Data	TXT	Tables from the <i>Natural Gas Annual</i>
Historical Annual Data	TXT	Tables from the <i>Historical Natural Gas Annual</i>
Field Codes	EXE	Oil & Gas Field Code Master List
<u>Applications</u>		
EIA-176 Query System	EXE	Company filings to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"
EIAGIS	EXE	Periodic updates for users of the EIAGIS-NG Geographic Information System

PDF files are image files that can be viewed through Adobe Acrobat.

TXT files are ASCII text. They may be replications of published tables, including table titles, column and row identification, or they may be flat files with a minimum of content description suitable for input to spreadsheets or other programs.

EXE files are executables that can be downloaded then opened. Databases are distributed as self-executing Zipped archives which spawn numerous data files and documentation. Applications are distributed as self-executing Zipped archives which initially generate numerous files and then form an application which is installed on the user's PC.

Preface

The *Natural Gas Monthly* (NGM) is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the NGM may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The NGM highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the NGM features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the NGM is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the Interior	MMcf	Million Cubic Feet
Btu	British Thermal Unit	MMS	United States Minerals Management Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf
EIA	Energy Information Administration, U.S. Department of Energy	STIFS	Short-Term Integrated Forecasting System
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook
		Tcf	Trillion Cubic Feet

Contents

Highlights	1
-------------------------	---

Appendices

A. Explanatory Notes	75
B. Data Sources	83
C. Statistical Considerations	89
D. Natural Gas Reports and Feature Articles	95
E. Technical Contacts	99
Glossary	101

Tables

1. Summary of Natural Gas Production in the United States, 1994-2000.	7
2. Supply and Disposition of Dry Natural Gas in the United States, 1994-2000.	8
3. Natural Gas Consumption in the United States, 1994-2000.	10
4. Selected National Average Natural Gas Prices, 1993-1999	12
5. U.S. Natural Gas Imports, by Country, 1993-1999	14
6. U.S. Natural Gas Exports, by Country, 1993-1999.	16
7. Marketed Production of Natural Gas, by State, 1993-1999	17
8. Gross Withdrawals and Marketed Production of Natural Gas by State, September 1999.	20
9. Underground Natural Gas Storage - All Operators, 1994-2000	21
10. Underground Natural Gas Storage - by Season, 1998-2000.	23
11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1994-1999	24
12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1994-1999.	25
13. Net Withdrawals from Underground Storage, by State, 1997-1999	26
14. Activities of Underground Natural Gas Storage Operators, by State, November 1999	30
15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999	31
16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999	35
17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999.	39

18. Natural Gas Deliveries to Electric Utility Consumers, by State, 1997-1999.	43
19. Natural Gas Deliveries to All Consumers, by State, 1997-1999.	47
20. Average City Gate Price, by State, 1997-1999.	51
21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999.	54
22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999	57
23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999	60
24. Average Price of Natural Gas Delivered to Electric Utility Consumers, by State, 1997-1999.	63
25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999.	66
26. Gas Home Customer-Weighted Heating Degree Days	73
A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data	75
C1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, October 1999	94

Figures

1. Production and Consumption of Natural Gas in the United States, 1997-2000	9
2. Natural Gas Deliveries to Consumers in the United States, 1995-1999	11
3. Average Price of Natural Gas Delivered to Consumers in the United States, 1996-2000	13
4. Average Price of Natural Gas in the United States, 1995-1999	13
5. Working Gas in Underground Natural Gas Storage in the United States, 1997-2000	22
6. Percentage of Total Deliveries Represented by Onsystem Sales, 1996-1999	72

Highlights

Overview

This issue of the *Natural Gas Monthly* contains estimates of natural gas data through January 2000 for many data series at the national level. Estimates of natural gas prices are available through October 1999 for most series. Highlights of the data estimates contained in this issue are:

- As cold weather moved into the Northeast and Midwest in mid-January, net withdrawals from storage for the month rose to a record 750 billion cubic feet.
- The increase in natural gas wellhead prices going into the fall of 1999 has pushed the cumulative average price through October 1999 higher than for the same period in 1998.
- Lower requirements for space heating in January 2000 compared with January 1999 have led to lower total end-use consumption of natural gas in January 2000.

Supply

The bitterly cold weather that swept across the United States beginning in mid-January was a contributing factor for the largest monthly net withdrawal of storage ever, while net imports and dry production increased slightly above the levels in the last few months of 1999. Net imports rose as a result of pipeline expansions and high utilization rates of existing capacity at the Canadian border and also a diversity of sources for liquefied natural gas (LNG) imports. Dry natural gas production in January 2000 is estimated to be 1,631 billion cubic feet (Table 1), virtually the same as for January in the 3 previous years.

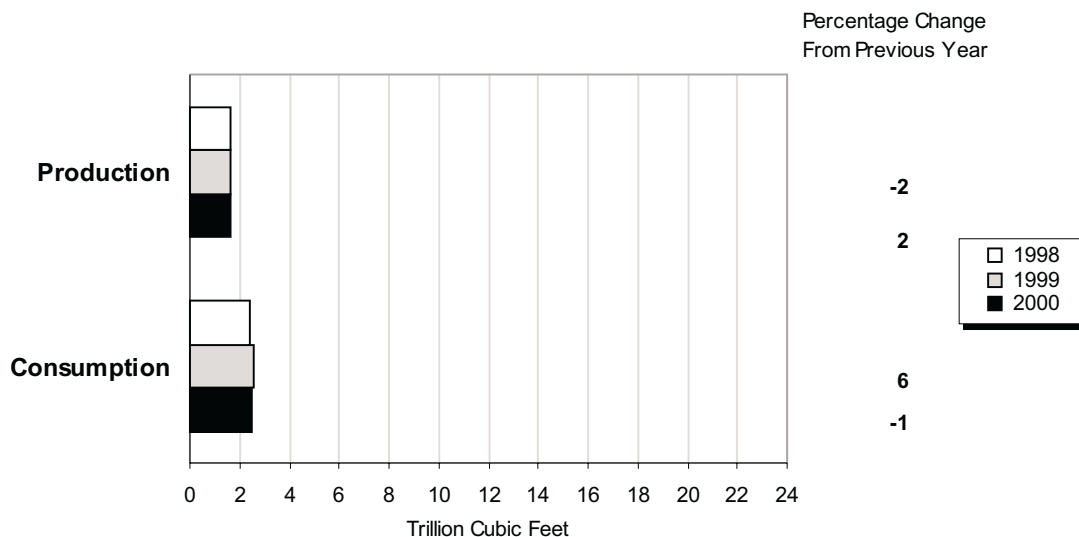
Net imports rose in January 2000, because of several factors such as increased LNG imports, pipeline expansions on the U.S.-Canadian border, and initial production from the Sable Island gas fields off Nova Scotia. The Northern Border Pipeline System added 700 million cubic feet per day of capacity to its existing pipeline, increasing import capacity on that system by nearly a third over capacity last year. This project affected the Northern Border system from the Canadian border in Montana through Iowa and into Illinois just south of Chicago. The Sable Offshore Energy Project (SOEP) in the northern Atlantic began producing 110 million cubic feet per day on January 4, 2000. It is expected to produce in excess of 500 million cubic feet per day by the end of 2000, contributing significantly to net imports from Canada.¹ The Northeast and Maritimes Pipeline System currently is transporting gas from SOEP to eastern Canadian and New England markets.

Net imports of natural gas for January 2000 are estimated to be 312 billion cubic feet (Table 2), a 6-percent increase from January 1999 and a 16-percent increase from January 1998. Cumulatively through November, total LNG imports for 1999 were 142.8 billion cubic feet, nearly double the level seen during the same period of 1998. A key element in the surge in LNG imports is the startup of the Atlantic LNG project in Trinidad. This project contributed 31 percent of all LNG imports from January through November 1999 although shipments did not begin until May (Table 5).

Net withdrawals of natural gas from underground storage facilities are estimated to be 750 billion cubic feet for January 2000 (Table 9), the largest monthly withdrawal ever recorded. The net withdrawal for January 2000 is 20 percent higher than a year ago and 60 percent higher than 2 years ago. The severe cold weather that plagued the Northeast

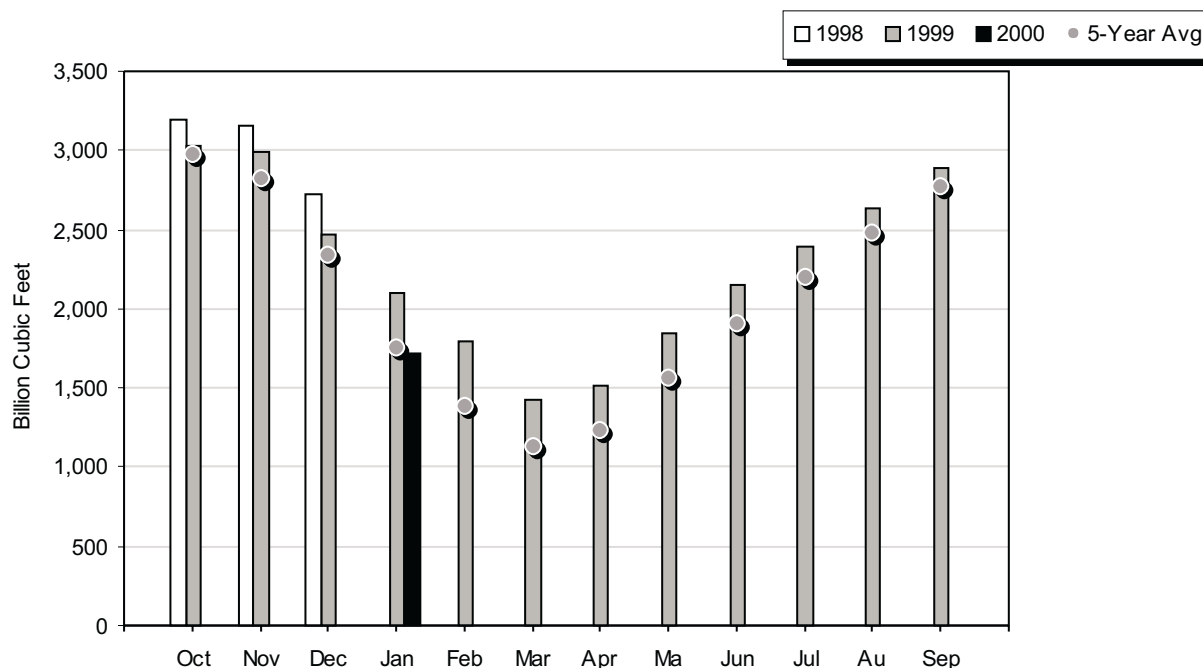
1 Sable Offshore Energy, Inc. "News Releases," <http://www.soep.com/soep-bin/pr-get?80> (January 4, 2000).

Figure HI1. Natural Gas Production and Consumption, January, 1998-2000



Source: Table 2.

Figure HI2. Working Gas in Underground Storage in the United States, 1998-2000



Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1995 to 1999 while the January average is calculated from January levels for 1996 to 2000. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Source: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.

and Midwest starting in mid-January contributed to the high withdrawal level. In fact, the American Gas Association (AGA) estimates that net withdrawals from storage were 242 billion cubic feet for the week ended January 28, the largest weekly total in 3 years.² At the end of January, despite these heavy drawdowns, the level of underground storage working gas is estimated to be 1,714 billion cubic feet (Table 10), less than 3 percent below 1,762 billion cubic feet, the average for the past 5 years (1995-1999).

End-Use Consumption

End-use consumption of natural gas in January 2000 is 1 percent lower than in January 1999, largely because of a decline in the residential sector where most gas is used for space heating. Although the weather turned colder than normal in mid-January, the resulting increase in demand was offset by lower demand early in the month when temperatures were warmer than normal. Residential consumption in January 2000 is estimated to be 858 billion cubic feet, 5 percent lower than in January 1999 (Table 3 and Figure HI3). In the commercial sector, where natural gas is also used mainly for space heating, consumption in January 2000 is nearly the same as in January 1999. The January 2000

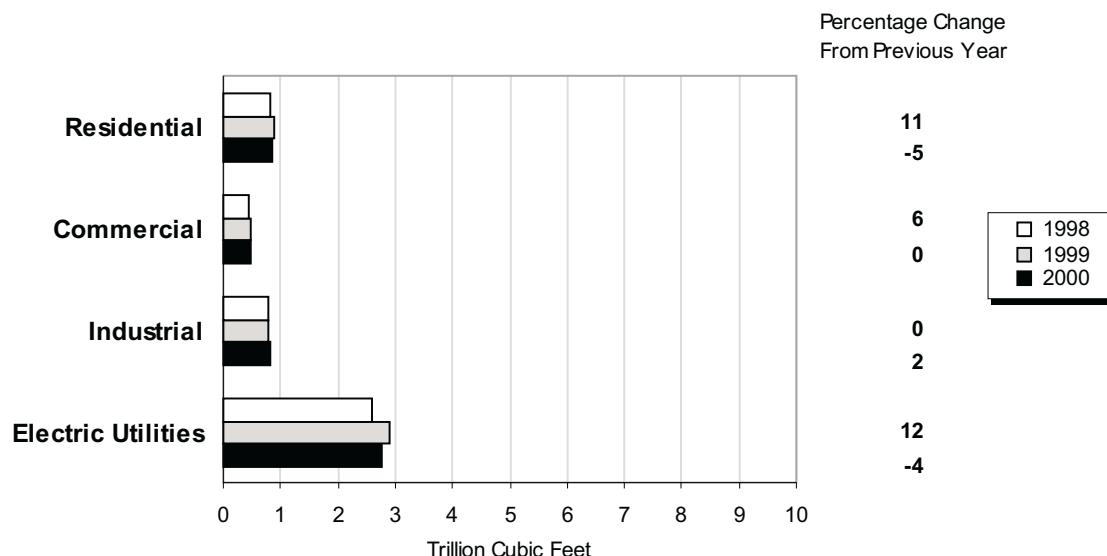
estimate of 478 billion cubic feet is less than one-half percent lower than commercial consumption in January 1999. In the industrial sector, natural gas consumption in January 2000 is estimated to be 803 billion cubic feet, almost 2 percent higher than the January 1999 level.

Estimates of natural gas consumption by electric utilities are available through October 1999. During the first part of 1999, electric utilities consumed more natural gas than they had in 1998, but from May through October 1999, consumption was below that of 1998. Cumulatively through October, electric utilities have consumed an estimated 2,781 billion cubic feet of natural gas, 4 percent less than during the same period of 1998.

Prices

The cumulative average wellhead price for January through October 1999 is higher compared with the same period in 1998 in part because of the rise the wellhead price in August and September 1999. Cumulative average prices paid by the end-use sectors are running lower than in 1998 with the exception of electric utilities (Figure HI4).

Figure HI3. Natural Gas Delivered to Consumers, January, 1998-2000

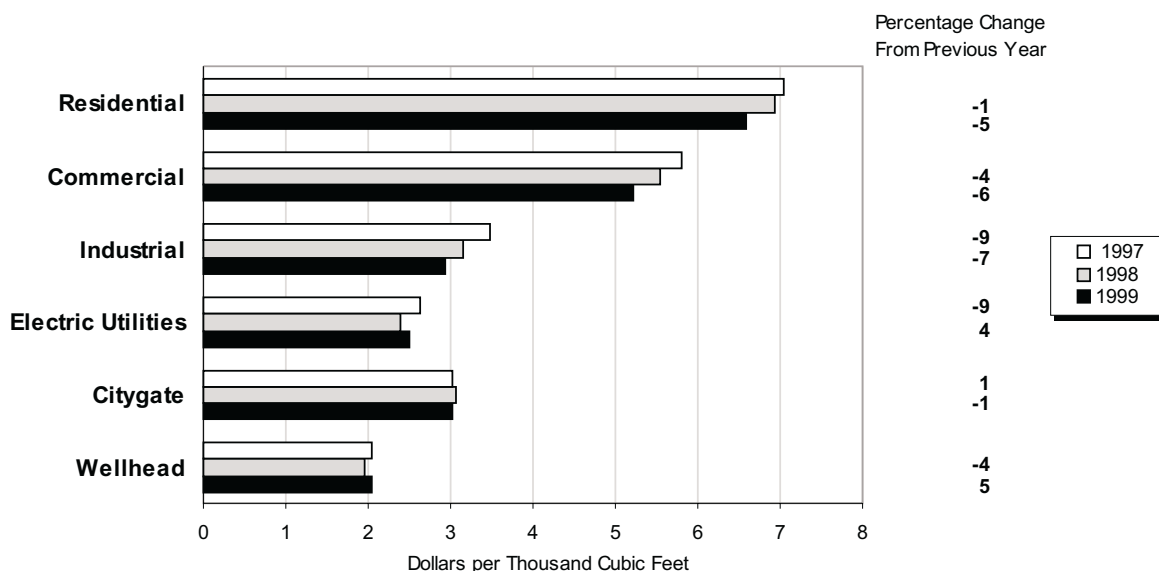


Note: Electric utilities reflect January-October deliveries for 1997-1999.

Source: Table 3.

2 American Gas Association, weekly storage activity estimate.

Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-October, 1997-1999



Note: Commercial and industrial average prices reflect onsystem sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices.

Source: Table 4.

The estimated monthly wellhead price in July 1999, at \$2.07 per thousand cubic feet, was just \$0.01 different from the July 1998 price. Then in both August and September 1999, the wellhead price increased reaching \$2.42 per thousand cubic feet. This was followed by a decline of 5 percent to \$2.31 in October 1999 (Table 4). The pattern of wellhead price changes was the reverse in 1998, declining in September and August, then increasing in October. The price estimate for September 1999 was 43 percent higher than the September 1998 price, while the October estimate is 25 percent higher than the October 1998 price. Earlier in 1999, wellhead prices generally were from 8 to 17 percent lower than in 1998. Cumulatively for September through October, the average wellhead price is estimated to be \$2.04 per thousand cubic feet, 5 percent higher than for the same period in 1998.

Estimates of cumulative average prices paid for natural gas in the residential, commercial, and industrial sectors are lower in 1999 than in 1998, but the gap has been narrowing in the industrial sector. The cumula-

tive residential price for January through October 1999 is \$6.58 per thousand cubic feet, 5 percent lower than in 1998. The commercial sector price is \$5.21 per thousand cubic feet, 6 percent lower than in 1998. Industrial users paid an average of \$2.93 per thousand cubic feet for natural gas in January through October 1999, 7 percent less than during the same period of 1998. However, the average industrial price has increased every month since May 1999 and in August, September, and October, it exceeded the 1998 price by 10 percent or more. The cumulative average industrial price for January-through-July 1999 had been 16 percent lower than in 1998.

The first significant snow storms of the winter have helped to push both spot and futures prices higher in late January and early February 2000 (Figure HI5). The daily settlement price on the near-month futures contract at the Henry Hub generally increased from \$2.168 per million Btu on January 5, 2000 (the February contract) to \$2.759 per million Btu on February 2, 2000 (the March contract). During the same period,

the daily average spot price at the Henry Hub increased from \$2.17 to \$2.92 per million Btu. The average spot price has exceeded the futures settlement price from January 21 through February 4 (the latest data available), indicating the value of immediately available supplies was greater than deliveries ar-

anged for the next month. On some days during this period, the average spot price was as much as \$0.20 to \$0.30 per million Btu higher than the futures price. The last time that the spot price exceeded the futures price by as much as \$0.20 was on September 25 and 28, 1998.

Figure HI5. Daily Futures Settlement Prices at the Henry Hub



Table 1. Summary of Natural Gas Production in the United States, 1994-2000
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss ^b	Dry Gas Production ^c
1994 Total	23,581	3,231	412	228	19,710	889	18,821
1995 Total	23,744	3,565	388	284	19,506	908	18,599
1996 Total	24,114	3,511	518	272	19,812	958	18,854
1997 Total	24,213	3,492	599	256	19,866	964	18,902
1998							
January	2,093	307	48	19	1,719	82	1,637
February	1,877	291	49	17	1,520	73	1,448
March	2,081	310	51	20	1,700	81	1,619
April	1,994	284	50	20	1,640	78	1,562
May	2,035	266	47	16	1,705	81	1,624
June	1,975	271	49	21	1,634	78	1,556
July	2,002	265	51	20	1,666	80	1,586
August	2,024	273	53	20	1,678	80	1,598
September	1,874	276	51	20	1,527	73	1,454
October	2,026	297	58	21	1,650	79	1,571
November	1,954	292	52	20	1,591	76	1,515
December	1,988	302	51	20	1,615	77	1,538
Total	23,924	3,433	611	234	19,646	938	18,708
1999							
January	^E 2,084	^E 317	^E 58	^E 20	^E 1,688	^E 82	^E 1,606
February	^E 1,878	^E 274	^E 54	^E 18	^E 1,532	^E 74	^E 1,458
March	^E 2,080	^E 307	^E 59	^E 21	^E 1,693	^E 82	^E 1,611
April	^E 1,962	^E 289	^E 42	^E 21	^E 1,610	^E 78	^E 1,532
May	^E 2,007	^E 264	^E 44	^E 21	^E 1,677	^E 81	^E 1,596
June	^E 1,956	^E 279	^E 42	^E 21	^E 1,614	^E 78	^E 1,536
July	^E 1,996	^E 283	^E 44	^E 21	^E 1,648	^E 80	^E 1,568
August	^E 1,971	^E 271	^E 42	^E 20	^E 1,638	^E 79	^E 1,559
September	^{RE} 1,951	^{RE} 279	^{RE} 43	21	^{RE} 1,608	^E 79	^E 1,546
October	^E 2,012	^E 281	^E 43	^E 21	^E 1,666	^E 81	^E 1,585
November	^E 1,943	^E 272	^E 42	^E 20	^E 1,608	^E 78	^E 1,530
December(STIFS)	NA	NA	NA	NA	^E 1,671	^E 81	^E 1,590
Total	NA	NA	NA	NA	^{RE} 19,653	^E 954	^E 18,716
2000							
January(STIFS)	NA	NA	NA	NA	^E 1,712	^E 81	^E 1,631

^a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

^b Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

^c Equal to marketed production (wet) minus extraction loss.

^E Estimated Data.

^{RE} Revised Estimated Data.

NA Not Available.

Notes: Data for 1993 through 1998 are final. All other data are preliminary

unless otherwise indicated and contain estimates for selected States (see Table 7). Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1993-1998: Energy Information Administration (EIA), *Natural Gas Annual 1998*. January 1999 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation and estimation procedures and revision policies.

Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1994-2000
(Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels ^a	Net Imports	Net Storage Withdrawals ^b	Balancing Item ^c	Consumption ^d
1994 Total	18,821	111	2,462	-286	-400	20,708
1995 Total	18,599	110	2,687	415	-230	21,581
1996 Total	18,854	109	2,784	2	217	21,967
1997 Total	18,902	103	2,837	24	92	21,959
1998						
January	1,637	11	270	486	-2	2,401
February	1,448	9	240	301	114	2,111
March	1,619	10	244	255	-4	2,123
April	1,562	8	240	-206	102	1,705
May	1,624	7	242	-402	29	1,500
June	1,556	6	230	-336	6	1,462
July	1,586	8	255	-326	49	1,572
August	1,598	8	264	-286	-1	1,583
September	1,454	7	250	-231	-10	1,471
October	1,571	8	253	-269	-81	1,482
November	1,515	10	246	32	-85	1,717
December	1,538	11	259	452	-131	2,129
Total	18,708	102	2,993	-530	-11	21,262
1999						
January	^E 1,606	^E 10	295	623	^R 0	^R 2,534
February	^E 1,458	^E 8	262	333	^R 50	^R 2,111
March	^E 1,611	^E 8	276	297	^R -44	^R 2,148
April	^E 1,532	^E 8	267	-91	^R 52	^R 1,768
May	^E 1,596	^E 8	272	-337	^R -15	^R 1,524
June	^E 1,536	^E 6	264	-306	^R -69	^R 1,431
July	^E 1,568	^E 7	276	-225	^R -111	^R 1,514
August	^E 1,559	^E 8	^E 298	-238	^R -47	^R 1,579
September	^E 1,546	^E 7	^E 292	-310	-92	1,444
October	^E 1,585	^E 8	^{RE} 295	-148	^R -239	1,501
November	^E 1,530	^E 4	^E 295	30	^E -166	^E 1,693
December(STIFS)	^E 1,590	^E 12	^{RE} 297	^{RE} 527	^{RE} -228	^E 2,198
Total	^E 18,716	^{RE} 94	^{RE} 3,389	^R 154	^{RE} -909	^{RE} 21,445
2000						
January(STIFS)	^E 1,631	^E 13	^E 312	^E 750	^E -196	^E 2,510

^a Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0022 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.

^b Monthly and annual data for 1993 through 1998 include underground storage and liquefied natural gas storage. Data for January 1999 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

^c Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.

^d Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 3.

^R Revised Data.

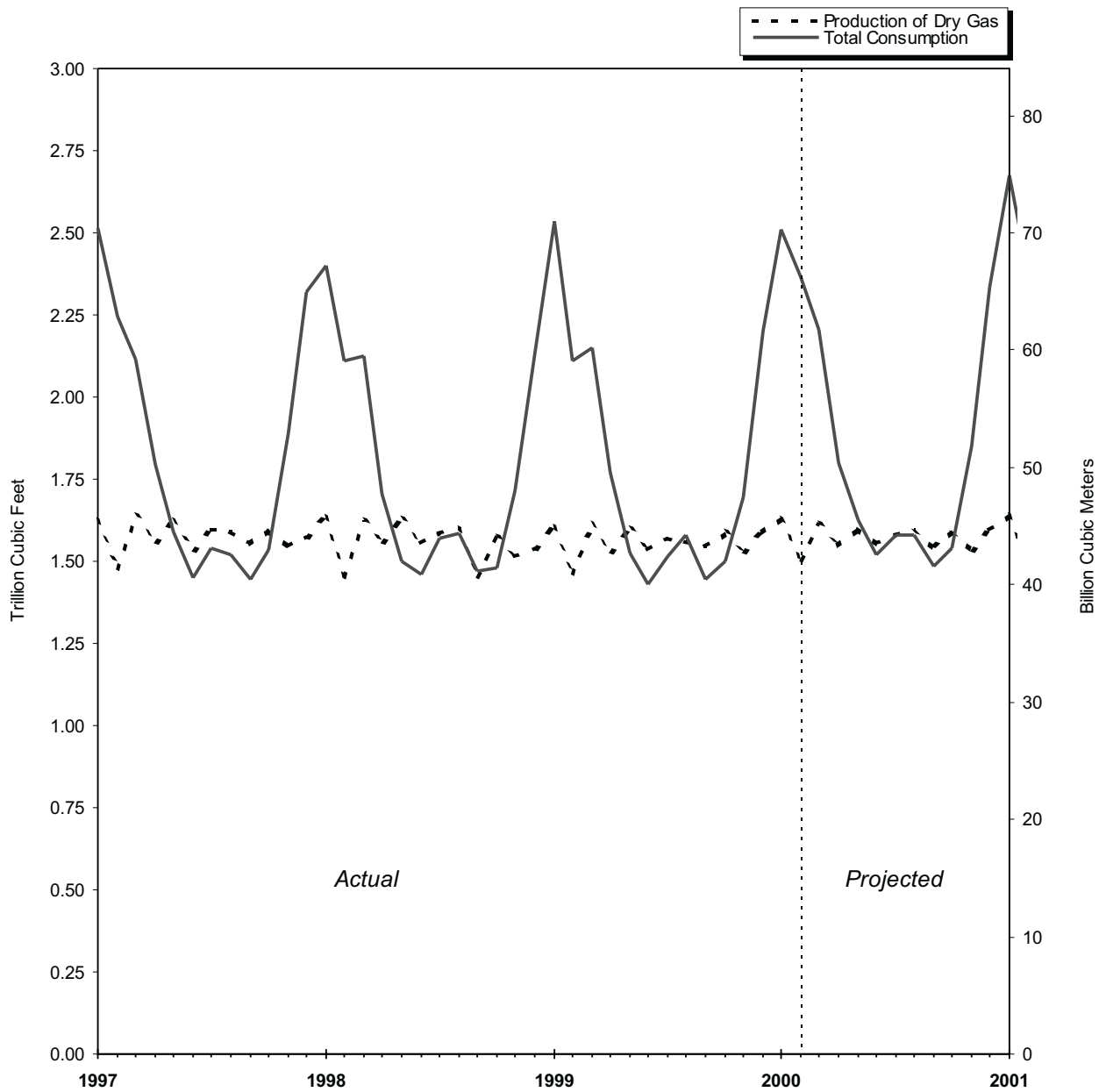
^E Estimated Data.

^{RE} Revised Estimated Data.

Notes: Data for 1993 through 1998 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1993-1998: Energy Information Administration (EIA), *Natural Gas Annual 1998*. 1998: EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Monthly Underground Gas Storage Report," and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports and EIA computations. January 1999 through current month: EIA, Form EIA-895, Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, Natural Gas Imports and Exports. See Appendix A for discussion of computation and estimation procedures and revision policies.

Figure 1. Production and Consumption of Natural Gas in the United States, 1997-2001



Sources: 1997 through the current month: Table 2. Projected data: Energy Information Administration, *Short-Term Energy Outlook*.

Table 3. Natural Gas Consumption in the United States, 1994-2000

(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel ^a	Pipeline Fuel ^b	Delivered to Consumers					Total Consumption
			Residential	Commercial ^c	Industrial	Electric Utilities	Total	
1994 Total	1,124	685	4,848	2,897	8,167	2,987	18,899	20,708
1995 Total	1,220	700	4,850	3,034	8,580	3,197	19,660	21,581
1996 Total	1,250	711	5,241	3,161	8,870	2,732	20,006	21,967
1997 Total	1,203	751	4,984	3,219	8,832	2,968	20,004	21,959
1998								
January	101	73	812	451	793	171	2,227	2,401
February	90	64	692	393	739	134	1,957	2,111
March	101	64	648	367	750	194	1,959	2,123
April	97	51	408	256	704	190	1,558	1,705
May	99	44	221	170	676	290	1,357	1,500
June	96	43	153	138	654	379	1,323	1,462
July	97	47	132	142	704	449	1,428	1,572
August	98	47	117	144	719	457	1,438	1,583
September	90	44	121	140	695	381	1,337	1,471
October	98	44	203	173	718	246	1,340	1,482
November	94	51	398	264	732	178	1,572	1,717
December	96	64	616	362	803	189	1,969	2,129
Total	1,157	635	4,520	3,005	8,686	3,258	19,469	21,262
1999								
January	^E 106	^{RE} 76	^{RE} 903	^{RE} 480	^{RE} 791	^{RE} 179	^{RE} 2,352	^{RE} 2,534
February	^E 96	^{RE} 63	^{RE} 680	^{RE} 395	^{RE} 725	^{RE} 152	^{RE} 1,952	^{RE} 2,111
March	^E 106	^{RE} 64	^{RE} 660	^{RE} 383	^{RE} 728	^{RE} 206	^{RE} 1,978	^{RE} 2,148
April	^E 101	^{RE} 53	^{RE} 417	^{RE} 261	^{RE} 682	^{RE} 256	^{RE} 1,615	^{RE} 1,768
May	^E 105	^{RE} 46	^{RE} 234	^{RE} 180	^{RE} 686	^{RE} 273	^{RE} 1,373	^{RE} 1,524
June	^E 101	^{RE} 43	^{RE} 155	^{RE} 144	^{RE} 664	^{RE} 324	^{RE} 1,287	^{RE} 1,431
July	^E 103	^{RE} 45	^{RE} 129	^{RE} 140	^{RE} 661	^{RE} 436	^{RE} 1,366	^{RE} 1,514
August	^E 103	^{RE} 47	^{RE} 118	^{RE} 145	^{RE} 733	^{RE} 434	^{RE} 1,429	^{RE} 1,579
September	^E 102	^{RE} 43	^{RE} 136	^{RE} 144	^{RE} 738	^{RE} 281	^{RE} 1,299	^{RE} 1,444
October	^E 104	^{RE} 45	^{RE} 225	^{RE} 187	^{RE} 700	^{RE} 240	^{RE} 1,352	^{RE} 1,501
November(STIFS)	^E 101	^{RE} 58	^{RE} 352	^{RE} 238	^{RE} 735	^{RE} NA	^{RE} 1,534	^{RE} 1,693
December(STIFS)	^E 105	^{RE} 66	^{RE} 655	^{RE} 379	^{RE} 805	^{RE} NA	^{RE} 2,027	^{RE} 2,198
Total	^E 1,232	^{RE} 649	^{RE} 4,664	^{RE} 3,076	^{RE} 8,648	^{RE} NA	^{RE} 19,565	^{RE} 21,445
2000								
January(STIFS)	^E 105	^E 75	^E 858	^E 478	^E 803	^E NA	^E 2,330	^E 2,510

^a Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

^b Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption(excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

^c Deliveries to Commercial consumers for 1993-1998 include vehicle fuel deliveries, which totaled, in billion cubic feet, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995, 2.9 in 1996, 4.4 in 1997, and 5.1 in 1998.

^R Revised Data.

^E Estimated Data.

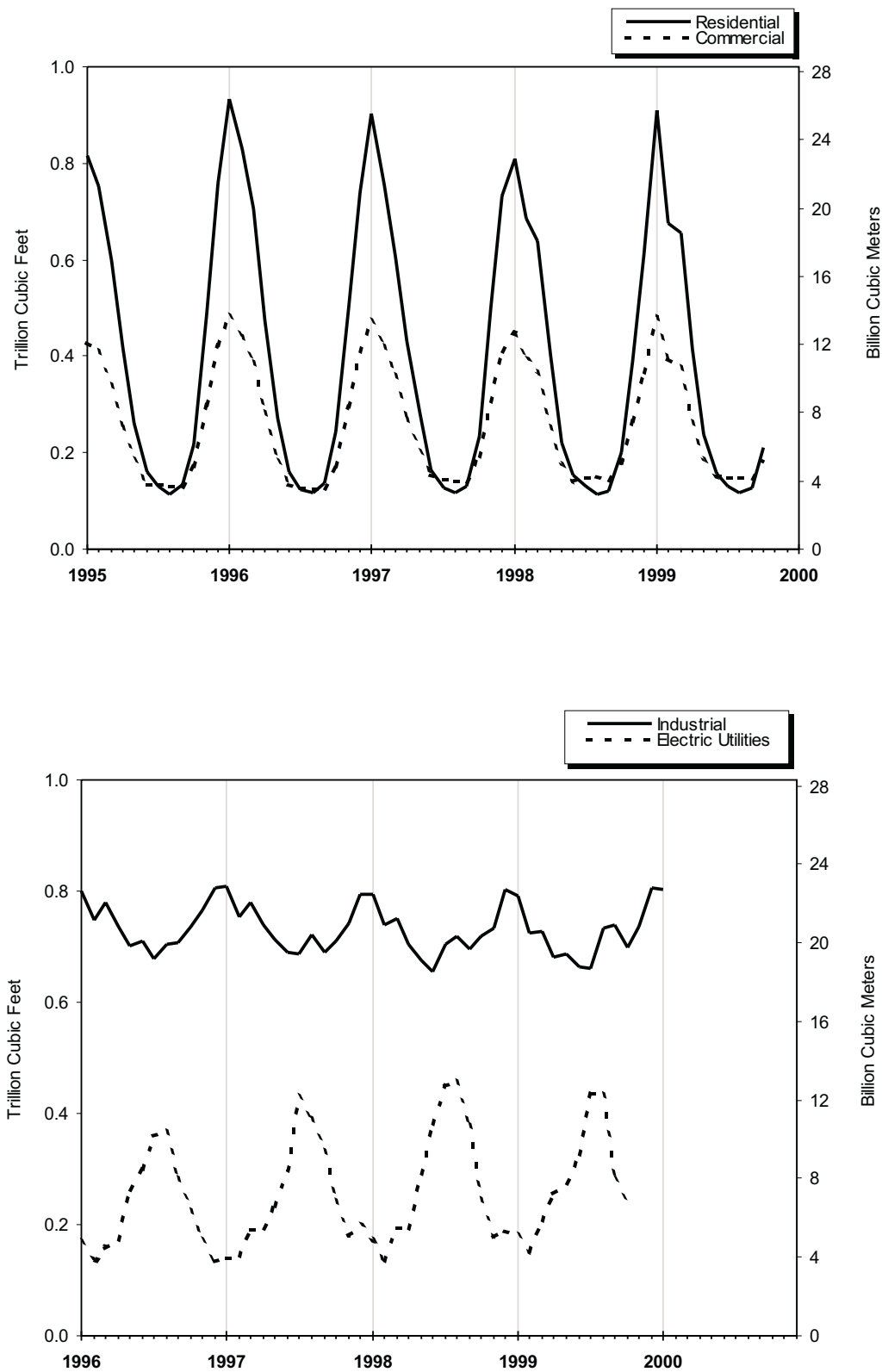
^{RE} Revised Estimated Data.

^{NA} Not Available.

Notes: Data for 1993 through 1998 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1993-1998: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and *Natural Gas Annual 1998*. January 1999 through the current month: EIA: Form EIA-895, Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.

Figure 2. Natural Gas Deliveries to Consumers in the United States, 1995-1999



Source: Table 3.

Table 4. Selected National Average Natural Gas Prices, 1993-1999

(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price ^a	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total ^b	Price	% of Total ^b	
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61
1994 Annual Average	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28
1995 Annual Average	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
1996 Annual Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69
1997								
January	3.40	4.28	6.74	6.19	78.7	4.60	17.5	4.06
February	2.49	3.76	6.79	6.14	78.3	4.18	17.8	2.97
March	1.79	3.07	6.52	5.73	73.9	3.34	17.9	2.29
April	1.81	2.92	6.53	5.46	71.8	3.10	18.0	2.30
May	2.00	3.11	6.83	5.39	65.5	3.04	17.6	2.41
June	2.08	3.41	8.30	5.64	61.6	3.19	17.5	2.52
July	2.00	3.44	8.78	5.35	59.4	3.11	17.6	2.44
August	2.08	3.34	8.99	5.43	57.9	3.00	17.7	2.53
September	2.33	3.50	8.84	5.58	59.4	3.32	17.4	2.96
October	2.68	3.86	7.69	5.74	62.8	3.69	17.7	3.24
November	2.92	4.76	6.86	5.86	70.3	4.02	17.6	3.41
December	2.28	3.42	6.54	5.72	72.9	3.74	17.7	2.77
Annual Average	2.32	3.66	6.94	5.80	70.8	3.59	18.1	2.78
1998								
January	1.95	3.08	6.41	5.65	73.2	3.67	16.8	2.64
February	1.95	3.08	6.41	5.59	72.9	3.58	16.7	2.51
March	2.05	3.06	6.29	5.40	73.6	3.40	17.3	2.53
April	2.15	3.23	6.81	5.64	67.7	3.28	15.8	2.59
May	2.04	3.12	7.70	5.73	62.6	3.14	14.9	2.47
June	1.90	2.98	8.51	5.51	62.9	2.97	15.1	2.40
July	2.08	3.31	8.53	5.64	56.0	3.04	13.1	2.50
August	1.81	3.01	9.25	5.46	53.3	2.75	13.8	2.21
September	1.69	2.78	8.96	5.49	57.0	2.65	14.2	2.15
October	1.85	2.99	7.60	5.31	59.2	2.75	14.8	2.22
November	1.93	2.99	6.58	5.22	64.5	2.95	15.7	2.37
December	1.94	3.10	6.34	5.23	68.3	2.92	17.2	2.22
Annual Average	1.94	3.07	6.82	5.48	67.0	3.14	16.1	2.40
1999								
January	^E 1.80	2.84	5.97	5.08	^R 72.7	3.07	15.4	2.25
February	^E 1.73	^R 2.94	6.23	5.17	^R 68.8	2.97	15.5	2.27
March	^E 1.70	2.67	6.00	5.00	67.9	^R 2.76	^R 16.6	2.11
April	^E 1.81	2.91	6.32	5.70	^R 64.4	2.79	15.8	2.25
May	^E 2.10	3.25	7.07	5.14	^R 61.1	2.65	17.0	2.48
June	^E 2.10	^R 3.18	7.91	5.23	^R 58.9	^R 2.84	^R 16.9	2.47
July	^E 2.07	^R 3.11	^R 8.47	5.23	^R 56.8	^R 2.88	^R 17.6	2.52
August	^E 2.34	^R 3.37	^R 8.83	^R 5.26	53.6	^R 3.03	^R 17.9	2.80
September	^E 2.42	3.50	8.38	5.40	58.1	3.09	17.0	2.86
October	^E 2.31	3.50	7.54	5.33	60.8	3.15	15.9	NA
1999 YTD^c	^E2.04	3.03	6.58	5.21	65.0	2.93	16.6	2.50
1998 YTD^c	1.95	3.07	6.94	5.55	67.1	3.16	15.3	2.40
1997 YTD^c	2.27	3.56	7.04	5.80	70.5	3.47	17.7	2.64

^a See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (NGM)* for discussion of wellhead prices.

^b Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 25 for breakdown by State.

^c Year-to-date price represents months for which price information is available in the current year.

^R Revised Data.

^E Estimated Data.

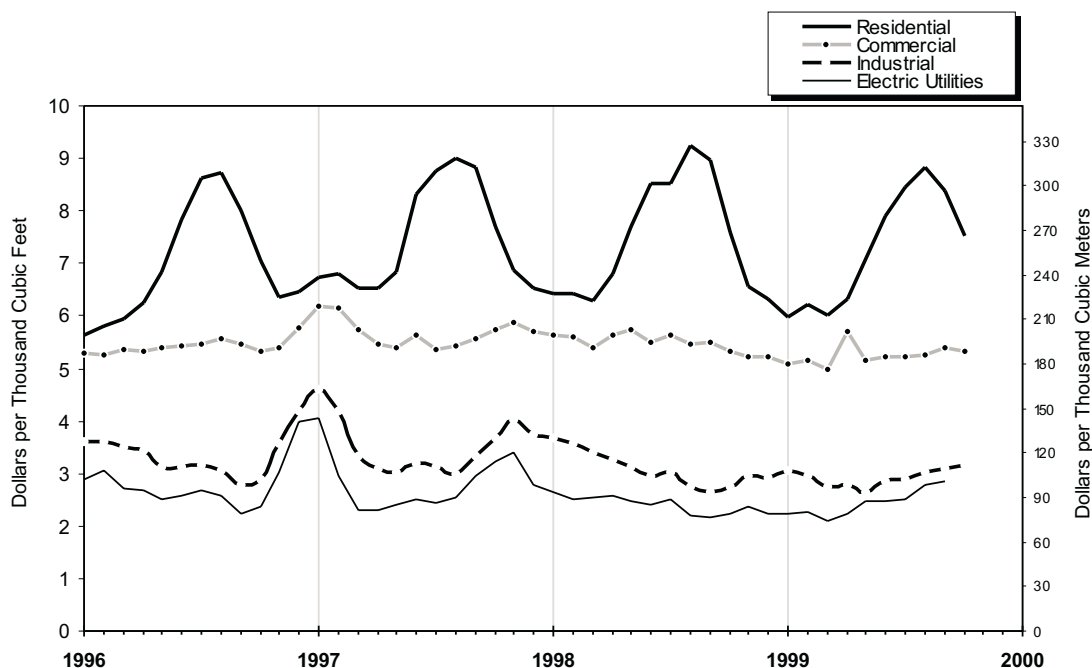
^{NA} Not Available.

Notes: Data for 1993 through 1998 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50

States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

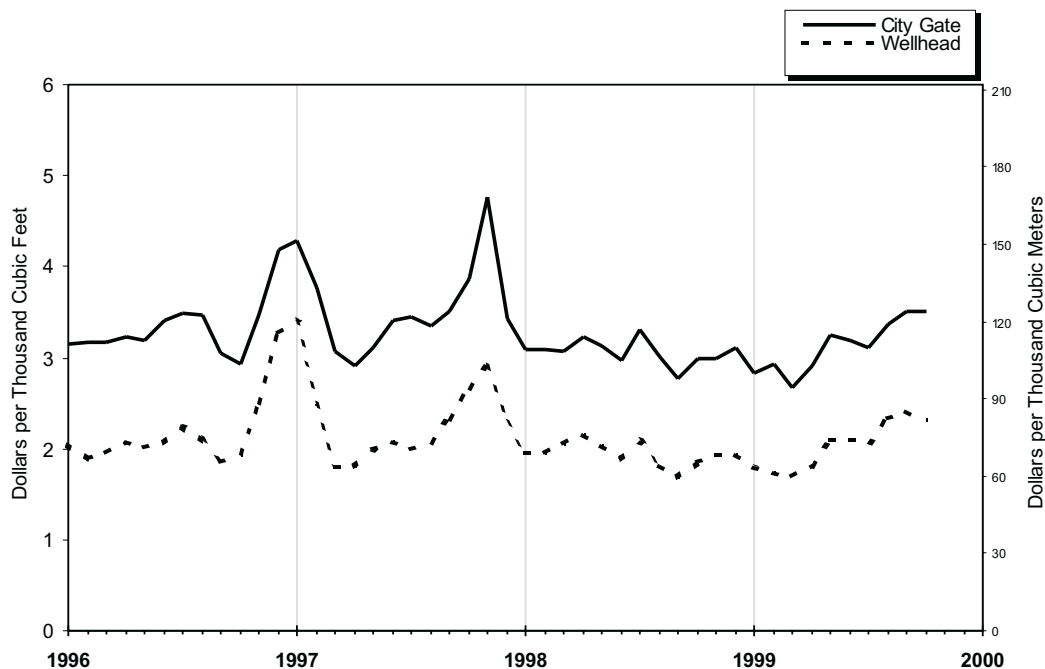
Sources: 1993-1998: Energy Information Administration (EIA) *Natural Gas Annual 1998*. 1999 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1998 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1996-2000



Source: Table 4

Figure 4. Average Price of Natural Gas in the United States, 1996-1999



Source: Table 4

Table 5. U.S. Natural Gas Imports, by Country, 1993-1999
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG			
	Canada		Mexico		Algeria		Australia	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1993 Total	2,266,751	2.02	1,678	1.94	81,685	2.20	0	—
1994 Total	2,566,049	1.86	7,013	1.99	50,778	2.28	0	—
1995 Total	2,816,408	1.48	6,722	1.53	17,918	2.30	0	—
1996 Total	2,883,277	1.96	13,862	2.25	35,325	2.70	0	—
1997								
January	266,756	3.27	1,555	3.09	7,560	2.78	0	—
February	230,352	2.50	2,526	2.49	7,667	3.00	0	—
March	251,328	1.70	3,127	1.83	2,530	2.98	0	—
April	235,431	1.66	189	1.92	2,557	2.23	0	—
May	234,345	1.81	2,380	2.03	2,552	2.20	2,455	2.68
June	225,366	1.87	1,692	2.20	5,059	2.49	0	—
July	229,479	1.82	1,088	1.98	5,026	2.48	0	—
August	237,142	1.81	6	2.35	7,535	2.43	0	—
September	232,090	2.00	29	2.47	5,030	2.41	2,337	2.88
October	245,742	2.32	965	2.92	5,050	2.70	0	—
November	257,782	2.71	1,874	2.82	7,542	2.89	4,893	3.07
December	253,338	2.17	1,810	2.12	7,567	2.88	0	—
Total	2,899,152	2.15	17,243	2.31	65,675	2.67	9,686	2.92
1998								
January	276,118	2.06	55	2.12	10,105	2.51	0	—
February	239,091	1.90	2,184	2.04	7,606	2.51	2,171	3.99
March	257,485	1.97	380	2.20	5,166	2.50	0	—
April	247,363	2.03	3,249	2.37	2,549	2.52	0	—
May	243,868	2.00	845	2.15	7,596	2.51	0	—
June	235,847	1.86	5	2.21	5,149	2.51	2,441	2.91
July	259,412	1.96	1,821	2.13	5,086	2.52	0	—
August	268,535	1.80	1,413	1.78	2,540	2.52	2,321	2.92
September	254,752	1.66	2,257	1.86	5,133	2.52	0	—
October	260,135	1.92	905	1.65	5,023	2.50	0	—
November	247,971	2.09	0	—	5,042	2.51	2,353	3.55
December	261,495	2.14	1,418	1.77	7,572	2.51	2,348	3.18
Total	3,052,073	1.95	14,532	2.03	68,567	2.51	11,634	3.30
1999								
January	290,266	1.98	4,891	1.76	12,612	2.47	0	—
February	258,656	1.89	4,398	1.71	7,423	2.51	2,557	3.56
March	279,161	1.82	751	1.61	12,648	2.70	0	—
April	265,973	1.84	4,192	2.04	7,639	2.46	0	—
May	270,034	2.17	6,843	1.97	3,900	2.67	0	—
June	256,251	2.13	4,978	2.14	2,528	1.96	2,314	2.34
July	271,431	2.27	3,876	2.24	5,133	2.19	0	—
August	287,657	2.49	6,028	2.64	2,554	2.19	2,302	R2.35
September	283,625	2.74	4,643	2.42	7,593	2.51	0	—
October	^R 290,306	NA	^E 4,643	NA	5,120	NA	2,309	NA
November	^E 292,006	NA	^E 4,643	NA	2,440	NA	0	—
1999 YTD	^E3,045,367	NA	^E49,886	NA	69,590	NA	9,482	NA
1998 YTD	2,790,578	1.93	13,114	2.06	60,996	2.51	9,286	3.33
1997 YTD	2,645,813	2.15	15,432	2.34	58,108	2.65	9,686	2.93

See footnotes at end of table.

Table 5. U.S. Natural Gas Imports, by Country, 1993-1999

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet) — Continued

Year and Month	LNG								Total	
	Qatar		Trinidad		United Arab Emirates		Other		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price		
1993 Total	0	—	0	—	0	—	0	—	2,350,115	2.03
1994 Total	0	—	0	—	0	—	0	—	2,623,839	1.87
1995 Total	0	—	0	—	0	—	0	—	2,841,048	1.49
1996 Total	0	—	0	—	4,949	3.46	0	—	2,937,413	1.97
1997										
January	0	—	0	—	2,417	3.74	0	—	278,288	3.26
February	0	—	0	—	0	—	0	—	240,545	2.52
March	0	—	0	—	0	—	0	—	256,985	1.72
April	0	—	0	—	0	—	0	—	238,178	1.67
May	0	—	0	—	0	—	0	—	241,732	1.83
June	0	—	0	—	0	—	0	—	232,118	1.88
July	0	—	0	—	0	—	0	—	235,593	1.84
August	0	—	0	—	0	—	0	—	244,684	1.83
September	0	—	0	—	0	—	0	—	239,486	2.01
October	0	—	0	—	0	—	0	—	251,758	2.33
November	0	—	0	—	0	—	0	—	272,091	2.72
December	0	—	0	—	0	—	0	—	262,716	2.19
Total	0	—	0	—	2,417	3.74	0	—	2,994,173	2.17
1998										
January	0	—	0	—	0	—	0	—	286,278	2.08
February	0	—	0	—	0	—	0	—	251,052	1.94
March	0	—	0	—	0	—	0	—	263,032	1.98
April	0	—	0	—	0	—	0	—	253,161	2.04
May	0	—	0	—	0	—	0	—	252,310	2.02
June	0	—	0	—	0	—	0	—	243,442	1.88
July	0	—	0	—	0	—	0	—	266,319	1.97
August	0	—	0	—	0	—	0	—	274,809	1.82
September	0	—	0	—	0	—	0	—	262,142	1.68
October	0	—	0	—	0	—	0	—	266,063	1.93
November	0	—	0	—	2,667	2.78	0	—	258,033	2.12
December	0	—	0	—	2,585	2.47	0	—	275,417	2.16
Total	0	—	0	—	5,252	2.63	0	—	3,152,058	1.97
1999										
January	0	—	0	—	0	—	0	—	307,769	2.00
February	2,481	2.75	0	—	0	—	0	—	275,515	1.93
March	0	—	0	—	0	—	0	—	292,560	1.86
April	2,492	1.93	0	—	0	—	0	—	280,296	1.86
May	0	—	5,493	1.90	0	—	0	—	286,270	2.17
June	2,417	1.98	6,620	2.08	0	—	0	—	275,109	2.13
July	2,388	^R 2.60	6,599	^R 2.10	0	—	0	—	289,428	^R 2.27
August	0	—	9,898	^R 2.50	0	—	2,576	^R 2.35	311,014	^R 2.49
September	4,987	^R 2.71	4,393	^R 2.55	0	—	0	—	305,242	^R 2.73
October	0	—	4,394	NA	0	—	0	—	^{RE} 306,771	NA
November	2,374	NA	6,657	NA	0	—	—	—	^E 308,121	NA
1999 YTD	17,140	NA	44,054	NA	0	—	2,576	2.35	^E 3,238,094	NA
1998 YTD	0	—	0	—	2,667	2.78	0	—	2,876,640	1.95
1997 YTD	0	—	0	—	2,417	3.74	0	—	2,731,457	2.17

^R Revised Data.^E Estimated Data.^{RE} Revised Estimated Data.

NA Not Available.

— Not Applicable.

— Data not available.

Sources: 1993-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 6. U.S. Natural Gas Exports, by Country, 1993-1999

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG				Total	
	Canada		Mexico		Japan		Mexico		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price		
1993 Total	44,518	2.14	39,676	2.02	55,989	3.34	0	—	140,183	2.59
1994 Total	52,556	2.42	46,500	1.68	62,682	3.18	0	—	161,738	2.50
1995 Total	27,554	1.96	61,283	1.50	65,283	3.41	0	—	154,119	2.39
1996 Total	51,905	2.67	33,840	2.11	67,648	3.65	0	—	153,393	2.97
1997										
January	4,193	4.08	2,231	4.08	5,604	4.25	0	—	12,028	4.16
February	5,169	3.02	1,677	2.32	5,596	4.20	0	—	12,443	3.46
March	9,115	2.05	1,486	1.55	5,675	4.16	0	—	16,276	2.74
April	5,168	1.78	3,044	1.83	5,660	4.06	0	—	13,872	2.72
May	4,107	2.08	2,177	1.96	3,812	3.83	0	—	10,097	2.72
June	3,162	2.28	2,579	2.14	3,786	3.72	0	—	9,527	2.81
July	3,257	2.14	3,122	2.17	3,756	3.66	0	—	10,136	2.71
August	3,820	2.15	6,282	2.37	7,532	3.62	0	—	17,633	2.86
September	3,129	2.37	6,159	2.59	3,767	3.58	0	—	13,055	2.83
October	2,432	2.85	4,182	2.87	5,676	3.58	0	—	12,289	3.19
November	5,579	3.10	1,782	3.16	5,691	3.66	0	—	13,051	3.35
December	7,318	2.58	3,650	2.30	5,631	3.58	0	—	16,600	2.86
Total	56,447	2.52	38,372	2.46	62,187	3.83	0	—	157,006	3.02
1998										
January	4,930	2.53	4,257	2.11	7,446	3.67	0	—	16,632	2.93
February	4,502	2.11	3,117	2.06	3,726	3.42	0	—	11,346	2.53
March	7,851	2.25	4,202	2.14	7,435	3.09	0	—	19,488	2.55
April	4,509	2.47	2,675	2.23	5,702	2.81	0	—	12,886	2.57
May	2,083	2.28	6,119	2.12	1,891	2.70	0	—	10,093	2.26
June	1,938	2.03	5,617	1.98	5,695	2.69	0	—	13,250	2.29
July	1,634	1.97	3,852	2.20	5,679	2.70	0	—	11,166	2.42
August	52	1.87	4,834	1.95	5,676	2.70	1	5.88	10,563	2.35
September	1,481	2.09	2,892	1.81	7,584	2.68	0	—	11,957	2.40
October	2,127	2.03	5,167	1.90	5,679	2.72	3	5.74	12,975	2.28
November	3,630	2.17	5,079	2.00	3,776	2.75	9	5.69	12,494	2.28
December	5,152	2.26	5,323	1.99	5,662	2.73	20	5.68	16,157	2.34
Total	39,891	2.25	53,133	2.04	65,951	2.91	33	5.69	159,007	2.45
1999										
January	2,373	1.91	4,526	1.83	5,587	2.61	24	7.48	12,510	2.20
February	3,360	1.94	4,753	1.74	5,563	2.49	28	7.46	13,704	2.11
March	4,883	1.80	5,950	1.64	5,570	2.75	22	7.41	16,425	2.07
April	2,300	1.79	5,049	1.89	5,699	2.48	19	7.23	13,067	2.14
May	2,512	2.26	6,109	2.29	5,586	2.70	24	7.47	14,231	2.45
June	2,255	2.16	5,278	2.32	3,723	2.41	19	7.34	11,275	2.33
July	2,347	^R 2.21	5,613	^R 2.36	5,675	^R 3.13	19	^R 7.20	13,654	^R 2.66
August	2,419	^R 2.44	5,400	^R 2.75	5,628	^R 2.70	19	^R 7.40	13,466	^R 2.68
September	2,301	^R 2.82	5,267	^R 2.94	5,604	^R 2.95	22	^R 7.35	13,194	^R 2.93
October	^E 2,301	NA	^E 5,267	NA	3,723	NA	NA	NA	^E 11,291	NA
November	^E 2,301	NA	^E 5,267	NA	5,580	NA	NA	NA	^E 13,148	NA
1999 YTD	^E 29,352	NA	^E 58,479	NA	57,937	NA	NA	NA	^E 145,964	NA
1998 YTD	34,738	2.25	47,810	2.04	60,289	2.92	13	5.71	142,850	2.46
1997 YTD	49,129	2.51	34,721	2.47	56,556	3.86	0	—	140,406	3.04

^R Revised Data.^E Estimated Data.

NA Not Available.

— Not Applicable.

Sources: 1993-1994: Energy Information Administration, Form FPC-14,

"Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet)

Year and Month	Alabama ^b	Alaska	Arizona	California	Colorado	Florida	Kansas
1993 Total	388,024	430,350	597	315,851	400,985	7,085	686,347
1994 Total	515,272	555,402	752	309,427	453,207	7,486	712,730
1995 Total	519,661	469,550	558	279,555	523,084	6,463	721,436
1996 Total	530,841	480,828	463	286,494	572,071	6,006	712,796
1997							
January	48,213	43,497	46	24,430	52,755	527	60,198
February	46,024	39,391	41	21,876	48,424	512	55,275
March	51,313	42,625	42	23,910	53,954	610	60,099
April	51,246	38,687	39	23,248	52,529	554	58,357
May	48,802	35,427	36	23,590	52,376	541	61,661
June	47,342	36,344	28	22,928	50,715	450	59,996
July	46,370	36,284	31	23,981	52,964	514	58,234
August	46,314	36,270	30	23,841	54,041	505	61,937
September	48,911	37,041	30	23,760	52,742	519	49,658
October	50,634	40,095	34	24,437	54,260	452	53,815
November	49,734	39,631	57	24,792	55,549	439	54,152
December	48,368	43,020	39	24,896	57,064	491	53,834
Total	583,272	468,311	452	285,690	637,375	6,114	687,215
1998							
January	46,466	43,382	43	24,752	57,511	503	53,032
February	41,653	39,244	42	22,151	52,954	491	48,698
March	46,476	42,479	53	22,708	58,795	592	52,948
April	46,281	38,540	43	21,952	57,586	531	51,415
May	48,978	35,281	38	23,894	57,916	513	54,334
June	49,638	36,217	34	24,871	55,989	426	52,862
July	50,131	36,171	42	27,157	57,737	486	51,324
August	49,215	36,118	36	29,727	58,584	472	54,059
September	42,308	36,884	32	29,114	57,005	498	43,419
October	47,503	39,958	31	30,467	60,868	423	47,058
November	46,682	39,483	33	29,508	59,592	401	47,359
December	48,447	42,890	33	28,974	61,783	459	47,078
Total	563,779	466,648	457	315,277	696,321	5,796	603,586
1999							
January	32,042	43,848	31	29,268	^E 67,301	517	41,599
February	29,023	39,443	27	26,541	^E 62,221	448	43,103
March	31,836	42,685	36	30,361	^E 68,086	494	43,887
April	28,413	^E 37,537	38	29,808	^E 66,011	459	^E 42,533
May	33,517	^E 33,279	41	30,944	^E 66,741	427	^E 44,437
June	32,295	^E 35,853	45	28,553	^E 64,410	392	^E 42,228
July	32,356	^E 36,229	60	30,744	^E 66,424	^E 382	^E 41,575
August	^E 32,253	^E 34,645	51	31,632	^E 69,632	^E 407	^E 42,743
September	^E 30,962	^E 35,787	43	31,288	^E 65,688	^E 604	43,299
1999 YTD	^E282,698	^E339,305	372	269,139	^E596,513	^E4,128	^E385,403
1998 YTD	421,146	344,317	361	226,329	514,078	4,513	462,091
1997 YTD	434,536	345,566	323	211,565	470,501	4,732	525,414

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet) — Continued

Year and Month	Louisiana ^b	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
1993 Total	4,991,138	204,635	80,695	54,528	1,409,429	59,851	2,049,942
1994 Total	5,169,705	222,657	63,448	50,416	1,557,689	57,805	1,934,864
1995 Total	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,734
1996 Total	5,289,742	245,740	103,263	50,996	1,554,087	49,674	1,734,887
1997							
January	445,257	34,940	8,253	4,654	135,263	3,952	144,608
February	405,366	16,875	7,807	4,451	122,656	3,899	134,455
March	447,802	24,790	8,470	4,836	137,830	4,453	147,098
April	431,010	12,944	8,120	4,654	132,438	4,364	136,246
May	443,269	39,819	8,611	4,561	136,553	4,539	142,336
June	425,934	19,314	8,893	3,808	125,256	4,348	138,038
July	434,326	40,026	8,636	4,114	131,806	4,427	144,769
August	438,965	18,597	9,626	4,213	134,140	4,486	147,528
September	430,599	22,451	9,162	4,199	128,915	4,381	150,488
October	445,702	20,297	10,084	3,150	134,623	4,508	145,054
November	434,908	26,013	9,683	4,706	120,856	4,416	135,537
December	446,682	29,885	9,955	5,091	118,298	4,629	137,731
Total	5,229,821	305,950	107,300	52,437	1,558,633	52,401	1,703,888
1998							
January	453,867	28,460	9,639	4,831	130,265	4,623	158,897
February	409,480	8,278	8,574	4,569	118,164	4,039	126,200
March	459,364	30,780	9,781	4,892	132,729	4,344	136,334
April	452,863	17,823	8,957	4,683	127,544	4,311	134,115
May	471,279	29,198	9,121	4,978	131,488	4,529	140,400
June	451,104	26,958	8,586	4,448	120,632	4,304	136,013
July	454,637	26,171	9,258	4,636	126,924	4,460	134,510
August	457,279	18,896	8,834	4,594	129,164	4,546	139,914
September	363,707	28,491	8,664	4,750	124,152	4,435	134,805
October	433,764	21,816	8,868	5,040	129,640	4,610	138,167
November	431,629	12,013	8,602	5,044	116,404	4,465	134,583
December	448,896	29,193	9,184	5,182	113,991	4,520	130,592
Total	5,287,870	278,076	108,068	57,645	1,501,098	53,185	1,644,531
1999							
January	^E 466,143	20,853	9,154	^E 4,947	134,745	4,331	^E 144,408
February	425,121	8,746	8,678	^E 4,700	134,071	3,858	^E 122,928
March	463,776	39,892	9,933	^E 5,002	134,084	4,220	^E 133,354
April	450,953	22,653	9,426	^E 4,749	134,098	4,298	^E 131,587
May	474,329	25,273	9,708	^E 4,894	^E 139,031	4,335	^E 139,036
June	^E 464,118	25,120	9,480	^E 4,118	^E 129,008	4,329	^E 133,557
July	468,257	24,043	9,542	^E 4,340	^E 131,149	4,570	^E 132,444
August	468,679	19,291	9,406	^E 4,552	^E 133,319	4,540	^E 133,202
September	444,299	24,696	9,198	^E 4,621	135,075	4,431	^E 132,151
1999 YTD	^E4,125,675	210,568	84,524	^E41,922	^E1,204,580	38,911	^E1,202,667
1998 YTD	3,973,581	215,054	81,415	42,379	1,141,062	39,590	1,241,188
1997 YTD	3,902,528	229,755	77,578	39,491	1,184,856	38,849	1,285,566

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas ^c	Utah	Wyoming	Other ^a States	U.S. Total
1993 Total	4,003	6,249,624	225,401	634,957	788,472	18,981,915
1994 Total	3,221	6,353,844	270,858	696,018	774,724	19,709,525
1995 Total	1,923	6,330,048	241,290	673,775	759,728	19,506,474
1996 Total	1,439	6,470,620	250,767	666,036	805,491	19,812,241
1997						
January	105	554,934	21,782	59,016	66,589	1,709,020
February	98	506,768	19,115	55,848	59,659	1,548,536
March	101	564,269	21,912	61,159	64,046	1,719,319
April	102	539,499	19,570	64,278	60,894	1,638,779
May	102	552,230	22,053	62,726	62,075	1,701,306
June	97	529,765	19,815	59,667	58,840	1,611,580
July	98	546,610	21,711	60,324	58,719	1,673,945
August	99	548,267	21,024	61,091	59,919	1,670,894
September	86	525,836	22,007	64,678	57,035	1,632,496
October	97	540,150	23,006	64,992	63,152	1,678,542
November	91	519,274	22,840	62,181	61,087	1,625,944
December	96	526,271	22,307	62,410	64,665	1,655,732
Total	1,173	6,453,873	257,139	738,368	736,679	19,866,093
1998						
January	90	550,623	21,826	66,238	64,219	1,719,267
February	79	497,583	21,758	59,825	56,464	1,520,246
March	96	548,845	23,656	64,659	60,395	1,699,925
April	92	531,219	23,513	61,338	57,355	1,640,161
May	92	545,368	24,967	65,642	57,484	1,705,500
June	90	522,691	23,968	59,655	55,586	1,634,073
July	95	536,998	23,036	63,534	58,630	1,665,937
August	94	542,707	23,681	63,228	56,789	1,677,936
September	90	507,526	21,554	63,059	56,609	1,527,103
October	83	529,662	23,830	65,994	61,915	1,649,698
November	85	509,919	23,045	64,618	57,038	1,590,505
December	80	495,612	22,507	63,523	62,259	1,615,203
Total	1,067	6,318,754	277,340	761,313	704,742	19,645,554
1999						
January	83	542,129	23,467	62,582	^E 60,348	^E 1,687,796
February	84	490,865	21,141	55,832	^E 55,142	^E 1,531,973
March	120	534,240	23,878	67,624	^E 59,456	^E 1,692,962
April	111	507,927	22,076	61,885	^E 55,351	^E 1,609,913
May	113	526,518	^E 23,166	64,838	^E 56,407	^E 1,677,033
June	111	501,865	^E 21,948	63,028	^E 53,875	^E 1,614,332
July	110	521,504	22,771	66,127	^E 55,164	^E 1,647,791
August	74	517,063	^E 22,955	58,535	^E 55,466	^E 1,638,445
September	90	503,267	^E 22,082	66,255	^E 54,270	^E 1,608,105
1999 YTD	895	4,645,378	^E203,485	566,705	^E505,480	^E14,708,350
1998 YTD	818	4,783,560	207,959	567,177	523,530	14,790,148
1997 YTD	889	4,868,179	188,987	548,786	547,776	14,905,876

^a Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1998 monthly values for these States are estimated.

^b All data for 1991 through 1996 include Federal Offshore production. For 1997 and 1998, data for Alabama exclude Federal Offshore production and data for Louisiana include both the Louisiana and Alabama portions of Federal Offshore production.

^c Federal offshore production volumes are included.

^E Estimated Data.

Notes: Data for 1993 through 1998 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: 1992-1998: Energy Information Administration (EIA), *Natural Gas Annual 1998*. 1999 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.

Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State, September 1999
(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama	^E 33,535	^E 564	^E 34,099	^E 1,147	^E 1,895	^E 94	^E 30,962
Alaska	^E 14,100	^E 240,886	^E 254,987	^E 218,724	0	^E 475	^E 35,787
Arizona	43	0	43	0	0	0	43
California	7,468	28,066	35,534	3,999	166	81	31,288
Colorado	^E 57,458	^E 8,866	^E 66,325	^E 566	0	^E 71	^E 65,688
Florida	0	^E 682	^E 682	0	^E 78	0	^E 604
Kansas	39,356	4,060	43,416	74	0	43	43,299
Louisiana	^E 390,980	^E 58,776	^E 449,756	^E 3,527	^E 0	^E 1,929	444,299
Michigan	20,099	5,025	25,124	177	0	251	24,696
Mississippi	9,946	489	10,435	521	490	226	9,198
Montana	^E 4,071	^E 555	^E 4,626	^E 5	0	0	^E 4,621
New Mexico	127,334	22,250	149,584	910	13,357	242	135,075
North Dakota	1,305	3,362	4,667	0	6	230	4,431
Oklahoma	^E 119,219	^E 12,932	132,151	0	0	0	^E 132,151
Oregon	110	0	110	4	15	0	90
Texas	446,227	107,974	554,201	35,865	12,737	2,332	503,267
Utah	^E 20,096	^E 3,161	^E 23,257	^E 52	0	^E 1,123	^E 22,082
Wyoming	102,177	5,321	107,498	13,024	14,100	14,119	66,255
Other States	^E 51,980	^E 2,789	^E 54,769	^E 90	^E 323	^E 85	^E 54,270
Total	1,445,505	505,757	1,951,262	278,685	43,168	21,303	^E1,608,105

^a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

^E Estimated Data.

Notes: All monthly data are considered preliminary until publication of the

Natural Gas Annual for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: Form EIA-895, "Monthly Quantity of Natural Gas Report."

Table 9. Underground Natural Gas Storage - All Operators, 1994-2000

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^b	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^c
1994 Total^a	4,360	2,606	6,966	284	12.2	2,796	2,508	-288
1995 Total^a	4,349	2,153	6,503	-453	3.1	2,566	2,974	408
1996 Total^a	4,341	2,173	6,513	19	0.9	2,906	2,911	6
1997 Total^a	4,350	2,175	6,525	2	0.1	2,800	2,824	24
1998								
January	4,347	1,712	6,060	215	14.5	69	538	468
February	4,342	1,426	5,768	286	25.2	75	365	291
March	4,342	1,183	5,524	192	19.4	136	382	246
April	4,339	1,386	5,725	334	31.9	280	80	-200
May	4,341	1,774	6,114	407	29.9	433	42	-391
June	4,335	2,114	6,449	381	22.1	379	52	-327
July	4,378	2,428	6,806	409	20.4	371	54	-317
August	4,340	2,698	7,038	358	15.4	336	58	-278
September	4,341	2,928	7,269	253	9.6	298	74	-224
October	4,342	3,191	7,533	302	10.6	308	46	-262
November	4,344	3,155	7,499	453	16.9	137	168	31
December	4,326	2,730	7,056	554	25.5	83	519	436
Total	—	—	—	—	—	2,905	2,379	-526
1999								
January	4,327	2,094	6,421	381	22.2	55	678	623
February	4,312	1,792	6,104	372	26.2	62	395	333
March	^d 4,361	^d 1,430	5,792	246	20.7	84	381	297
April	4,355	1,514	5,869	131	9.5	203	112	-91
May	4,346	1,847	6,192	72	4.0	380	43	-337
June	4,344	2,157	6,501	54	2.6	345	40	-306
July	4,350	2,390	6,740	-27	-1.1	303	78	-225
August	4,342	2,632	6,974	-66	-2.4	309	70	-238
September	4,360	2,884	7,245	-43	-1.5	352	42	-310
October	4,360	3,026	7,386	-165	-5.2	238	90	-148
November	4,364	2,991	7,355	-164	-5.2	170	200	30
December(STIFS)	^{RE} 4,364	^E 2,464	^{RE} 6,828	^{RE} -266	^E -9.7	NA	NA	^{RE} 527
Total	—	—	—	—	—	NA	NA	^R 154
2000								
January(STIFS)	^E 4,364	^E 1,714	^E 6,078	^E -380	^E -18.2	NA	NA	^E 750

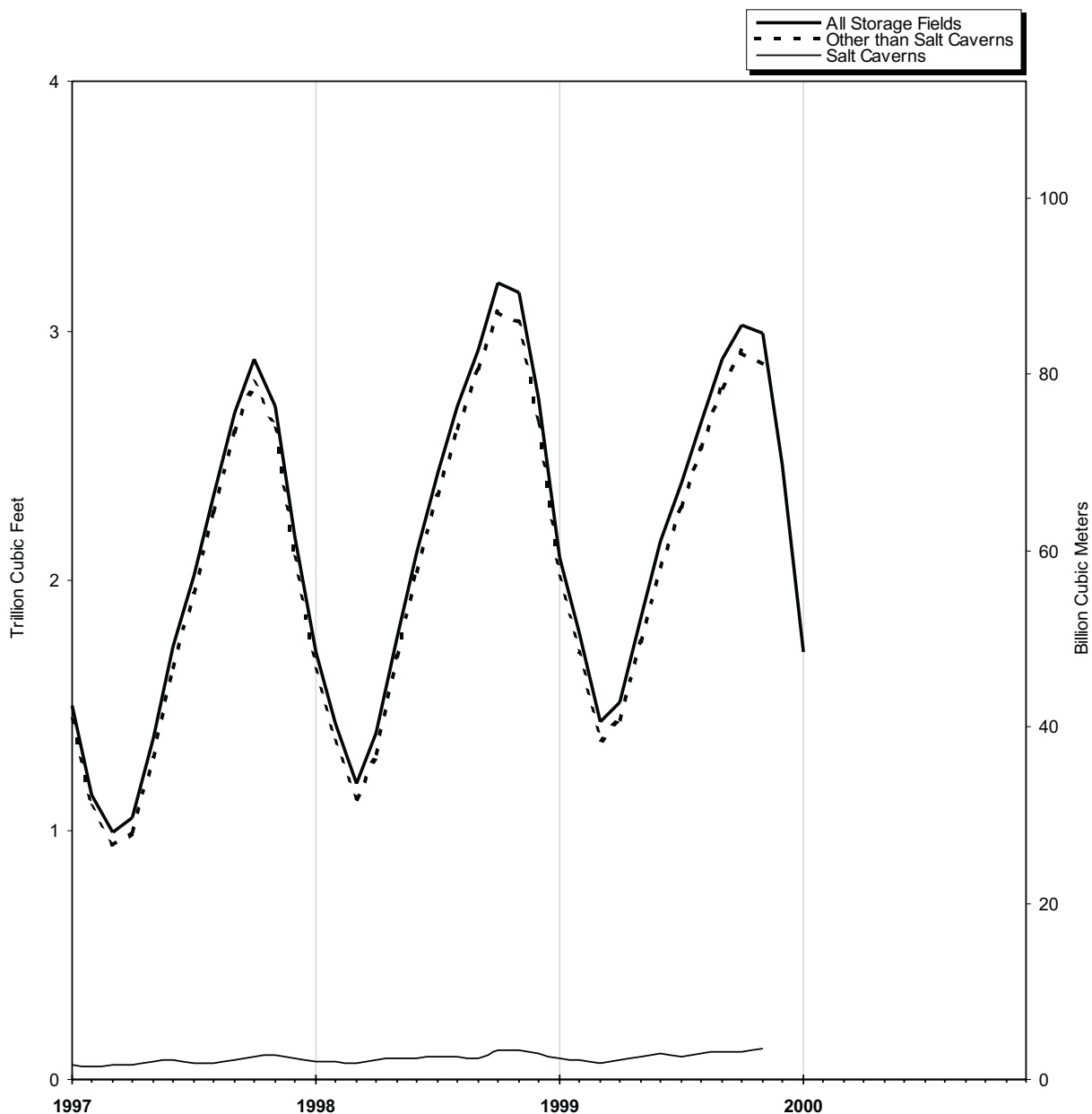
^a Total as of December 31.^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; 1996 - 8,159; 1997 - 8,128; and 1998 - 8,179.^c Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.^d Reflects one respondent's reclassification of natural gas in underground storage from working gas to base gas.^R Revised Data.^E Estimated Data.^{RE} Revised Estimated Data.**NA** Not Available.

— Not Applicable.

Notes: Data for 1993 through 1998 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Figure 5. Working Gas in Underground Natural Gas Storage in the United States, 1997-2000



Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 10. Underground Natural Gas Storage - by Season, 1998-2000

(Volumes in Billion Cubic Feet)

Year, Season and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
March 1998	4,342	1,183	5,524	192	19.4	136	382	246
1998 Refill Season								
April	4,339	1,386	5,725	334	31.9	280	80	-200
May	4,341	1,774	6,114	407	29.9	433	42	-391
June	4,335	2,114	6,449	381	22.1	379	52	-327
July	4,378	2,428	6,806	409	20.4	371	54	-317
August	4,340	2,698	7,038	358	15.4	336	58	-278
September	4,341	2,928	7,269	253	9.6	298	74	-224
October	4,342	3,191	7,533	302	10.6	308	46	-262
Total	—	—	—	—	—	2,405	407	-1,998
1998-1999 Heating Season								
November	4,344	3,155	7,499	453	16.9	137	168	31
December	4,326	2,730	7,056	554	25.5	83	519	436
January	4,327	2,094	6,421	381	22.2	55	678	623
February	4,312	1,792	6,104	372	26.2	62	395	333
March	^b 4,361	^b 1,430	5,792	246	20.7	84	381	297
Total	—	—	—	—	—	422	2,141	1,719
1999 Refill Season								
April	4,355	1,514	5,869	131	9.5	203	112	-91
May	4,346	1,847	6,192	72	4.0	380	43	-337
June	4,344	2,157	6,501	54	2.6	345	40	-306
July	4,350	2,390	6,740	-27	-1.1	303	78	-225
August	4,342	2,632	6,974	-66	-2.4	309	70	-238
September	4,360	2,884	7,245	-43	-1.5	352	42	-310
October	4,360	3,026	7,386	-165	-5.2	238	90	-148
Total	—	—	—	—	—	2,130	474	-1,656
1999-2000 Heating Season								
November	4,364	2,991	7,355	-164	-5.2	170	200	30
December(STIFS)	^{RE} 4,364	^E 2,464	^{RE} 6,828	^{RE} -266	^E -9.7	^{NA}	^{NA}	^{RE} 527
January(STIFS)	^E 4,364	^E 1,714	^E 6,078	^E -380	^E -18.2	^{NA}	^{NA}	^E 750

^a Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

^b Reflects one respondent's reclassification of natural gas in underground storage from working gas to base gas.

^E Estimated Data.

^{RE} Revised Estimated Data.

^{NA} Not Available.

— Not Applicable.

Notes: Data for 1997 and 1998 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory

Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Table 11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1994 - 1999
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1994 Total^c	44	70	113	—	—	142	123	-19
1995 Total^c	60	72	131	2	2.9	194	200	5
1996 Total^c	64	85	149	14	18.8	258	246	-13
1997								
January	65	57	122	-2	-3.1	21	51	30
February	59	49	109	2	4.0	15	23	8
March	65	56	121	18	47.3	22	16	-6
April	65	58	123	1	1.8	22	19	-2
May	65	73	138	10	17.3	27	13	-14
June	66	80	145	8	11.7	22	16	-7
July	65	66	131	-6	-7.5	15	30	15
August	65	67	132	-11	-12.4	23	22	0
September	65	78	143	-9	-8.7	27	14	-12
October	66	93	159	4	5.6	30	14	-16
November	67	95	162	7	9.4	25	24	-2
December	67	83	150	-4	-3.0	19	31	12
Total	67	83	150	-4	-3.0	267	274	6
1998								
January	67	69	136	10	21.6	18	31	13
February	66	69	135	18	39.1	18	21	3
March	68	64	131	8	13.8	23	29	6
April	68	80	149	22	38.7	30	12	-18
May	68	83	151	9	12.9	26	23	-3
June	66	83	149	3	4.1	21	23	2
July	66	91	157	25	38.0	26	18	-8
August	66	92	158	25	38.8	24	22	-2
September	67	83	151	5	7.4	24	33	9
October	67	116	183	22	24.4	45	12	-33
November	68	119	186	23	24.5	23	18	-5
December	67	104	171	21	26.0	18	33	15
Total	—	—	—	—	—	297	275	-22
1999								
January	69	84	153	14	19.6	19	41	22
February	67	77	144	10	14.3	15	20	5
March	67	68	135	4	6.0	18	26	8
April	67	77	144	-3	-3.8	27	18	-9
May	67	94	161	11	13.4	29	12	-17
June	65	102	167	19	22.6	21	15	-6
July	65	94	160	3	3.0	16	24	8
August	66	102	168	9	9.6	22	14	-8
September	66	113	179	29	35.0	23	13	-10
October	67	114	181	-1	-1.2	21	19	-1
November	67	122	189	4	3.4	21	17	-4

^c Total as of December 31.

— Not Applicable.

Notes: Data for 1994 through 1998 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in

base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1994-1999

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Non-Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1994 Total^c	4,317	2,536	6,853	—	—	2,654	2,385	-269
1995 Total^c	4,290	2,082	6,371	-455	-17.9	2,372	2,774	403
1996 Total^c	4,277	2,087	6,364	6	0.3	2,647	2,665	18
1997								
January	4,282	1,439	5,721	34	2.5	47	702	654
February	4,283	1,090	5,372	116	12.0	40	390	350
March	4,280	935	5,215	214	29.8	109	269	160
April	4,277	993	5,270	195	24.6	184	127	-56
May	4,275	1,292	5,566	191	17.6	335	28	-307
June	4,291	1,651	5,942	194	13.3	385	26	-358
July	4,290	1,951	6,241	124	6.8	346	49	-297
August	4,291	2,271	6,563	103	4.7	356	34	-322
September	4,295	2,595	6,890	75	3.0	353	29	-324
October	4,292	2,793	7,085	70	2.6	265	70	-195
November	4,292	2,604	6,896	142	5.8	88	278	191
December	4,283	2,092	6,375	4	0.2	27	548	521
Total	4,283	2,092	6,375	4	0.2	2,533	2,551	18
1998								
January	4,281	1,643	5,923	203	14.2	51	507	456
February	4,276	1,357	5,633	267	24.5	57	344	287
March	4,274	1,119	5,393	184	19.8	113	353	240
April	4,271	1,306	5,576	312	31.5	250	68	-182
May	4,272	1,691	5,963	398	30.9	407	20	-387
June	4,269	2,030	6,300	378	23.0	358	29	-329
July	4,312	2,337	6,649	385	19.8	345	36	-309
August	4,274	2,606	6,880	332	14.7	312	37	-275
September	4,273	2,844	7,118	247	9.6	274	41	-233
October	4,275	3,076	7,350	280	10.1	263	34	-229
November	4,276	3,036	7,313	430	16.6	114	150	36
December	4,259	2,626	6,884	532	25.5	64	485	421
Total	—	—	—	—	—	2,608	2,103	-504
1999								
January	4,257	2,010	6,268	367	22.4	37	638	601
February	4,245	1,714	5,960	363	26.8	47	375	328
March	4,294	1,363	5,657	242	21.6	67	355	289
April	4,288	1,437	5,725	134	10.3	175	94	-81
May	4,279	1,753	6,031	61	3.6	351	31	-320
June	4,279	2,055	6,333	35	1.7	324	24	-300
July	4,285	2,296	6,581	-30	-1.3	287	54	-233
August	4,276	2,530	6,806	-75	-2.9	287	56	-231
September	4,294	2,772	7,066	-73	-2.5	329	29	-300
October	4,293	2,912	7,205	-164	-5.3	217	70	-147
November	4,297	2,869	7,166	-168	-5.5	149	183	34

^c Total as of December 31.

— Not Applicable.

Notes: Data for 1994 through 1998 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in

base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet)

State	1999						
	November	October	September	August	July	June	May
Alabama	-134	77	-402	-81	-235	-210	-471
Arkansas	423	-219	-237	-901	-1,116	-1,086	-1,045
California	-4,713	-4,840	-9,773	2,919	-11,199	-20,737	-27,111
Colorado	-875	-2,419	-4,873	-5,436	-6,692	-5,526	-307
Illinois	2,249	-28,933	-38,601	-30,924	-23,880	-24,188	-27,851
Indiana	-2,154	-3,753	-4,225	-2,797	-1,681	-1,625	-758
Iowa	1,096	-10,941	-13,108	-12,914	-10,783	-6,837	-4,596
Kansas	979	-1,014	-14,496	-9,796	-3,006	-17,080	-12,144
Kentucky	2,283	-1,117	-10,052	-1,241	-3,773	-10,131	-8,328
Louisiana	4,760	-12,129	-32,350	-3,569	-3,546	-19,988	-22,324
Maryland	459	-3,376	-1,411	-1,954	1,324	93	-2,551
Michigan	6,940	-21,286	-45,478	-50,880	-51,556	-51,441	-49,536
Minnesota	-128	-175	-272	-250	-308	-172	0
Mississippi	-2,641	1,133	-2,086	-1,088	852	-3,642	-5,105
Missouri	-174	-205	-408	-64	6	6	-697
Montana	1,189	519	-1,472	-2,542	-1,794	-1,784	-568
Nebraska	-298	-477	-1,732	-1,004	478	-697	-701
New Mexico	-1,202	-260	-2,232	-841	-172	-443	-1,371
New York	1,472	-938	-5,725	-6,853	-5,915	-6,909	-9,935
Ohio	8,486	-9,284	-25,111	-27,587	-27,798	-27,954	-33,732
Oklahoma	-2,795	-11,483	-15,540	-1,222	-748	-9,556	-14,068
Oregon	-592	0	-1,542	-1,313	-2,114	-2,013	168
Pennsylvania	4,194	-19,002	-41,487	-37,841	-27,925	-36,090	-44,102
Tennessee	56	-57	-105	-104	-76	-107	-143
Texas	-770	-11,096	-10,532	-7,923	-6,519	-21,602	-30,819
Utah	957	-1,889	-4,860	-4,582	-7,489	-5,915	-3,772
Virginia	182	-110	-418	-207	-209	-211	-273
Washington	-38	-1,402	-402	-2,951	-3,595	-1,765	-786
West Virginia	10,697	-3,299	-20,378	-22,999	-23,517	-26,426	-32,000
Wyoming	545	-306	-1,030	-1,371	-2,294	-1,661	-2,132
AGA Regions							
Producing	-1,246	-35,067	-77,473	-25,340	-14,255	-73,397	-86,875
Eastern Consuming	35,355	-102,700	-208,641	-197,450	-175,542	-192,727	-215,674
Western Consuming	-3,655	-10,511	-24,223	-15,526	-35,485	-39,575	-34,509
Total	30,454	-148,279	-310,337	-238,316	-225,282	-305,699	-337,059

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1999				1998		
	April	March	February	January	Total	December	November
Alabama	-137	312	114	813	-447	139	-1
Arkansas	-667	690	1,049	2,066	-1,774	1,245	63
California	-911	9,782	18,491	23,789	-40,969	30,486	-14,022
Colorado	8,881	3,319	3,684	3,990	-5,072	7,324	-1,757
Illinois	7,599	27,580	41,907	56,407	-9,780	42,407	9,311
Indiana	921	3,622	2,942	5,558	-921	4,063	-2,296
Iowa	86	5,170	11,814	20,553	-2,954	20,920	-178
Kansas	5,085	13,977	9,273	22,470	-18,691	14,533	3,580
Kentucky	-2,297	6,081	7,825	12,241	-11,700	10,352	1,731
Louisiana	-16,632	10,263	15,966	43,591	-82,860	38,463	1,355
Maryland	-667	1,208	1,982	3,399	-876	1,882	29
Michigan	-23,148	53,123	57,189	112,276	-74,840	60,982	18,759
Minnesota	214	167	238	287	372	438	-84
Mississippi	-2,240	6,840	3,303	9,981	-10,185	5,464	702
Missouri	-27	150	343	170	173	573	-204
Montana	1,329	2,410	3,375	4,860	-400	3,962	2,606
Nebraska	1,168	1,338	442	698	1,466	1,336	625
New Mexico	1,025	943	83	1,364	-6,479	-619	-1,243
New York	-5,300	10,688	10,057	15,534	-10,656	6,889	1,047
Ohio	-5,317	33,698	33,362	53,448	-26,672	35,491	7,882
Oklahoma	-8,791	8,079	-881	31,284	-48,008	24,711	106
Oregon	735	1,185	1,717	1,979	-1,278	1,329	49
Pennsylvania	-24,525	44,023	50,445	83,851	-40,009	46,685	858
Tennessee	3	80	131	130	-62	131	-2
Texas	-15,510	14,152	9,654	43,297	-102,117	36,724	-2,512
Utah	1,667	5,738	6,185	10,569	676	6,533	2,087
Virginia	-184	325	449	317	-510	371	47
Washington	1,852	1,113	3,144	603	-539	3,223	-732
West Virginia	-13,958	30,271	36,278	53,983	-28,267	27,238	3,983
Wyoming	-990	352	2,050	3,464	-2,719	2,677	-590
AGA Regions							
Producing	-37,730	54,944	38,447	154,055	-270,114	120,522	2,052
Eastern Consuming	-65,782	217,668	255,282	419,379	-206,056	259,459	41,592
Western Consuming	12,778	24,066	38,885	49,540	-49,929	55,973	-12,444
Total	-90,735	296,678	332,615	622,974	-526,099	435,953	31,200

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1998						
	October	September	August	July	June	May	April
Alabama	-613	401	-200	9	-623	-144	-245
Arkansas	-580	-817	-1,005	-1,034	-1,100	-1,046	-471
California	-23,861	-5,931	-7,171	-9,351	-27,432	-29,142	-10,607
Colorado	-2,045	-5,894	-5,866	-4,055	-3,907	-6,024	3,583
Illinois	-30,361	-39,382	-32,631	-25,975	-32,534	-25,812	-559
Indiana	-2,901	-4,532	-4,058	-2,987	-519	-483	929
Iowa	-7,251	-12,282	-10,097	-14,097	-8,440	-3,579	387
Kansas	-8,545	-9,036	-11,957	-12,830	-6,032	-18,906	-6,791
Kentucky	-5,424	-4,214	-7,859	-11,061	-8,191	-11,810	-2,512
Louisiana	-36,341	-9,007	-20,195	-25,554	-14,745	-22,813	-23,161
Maryland	-1,312	-809	-1,413	-2,954	-1,266	-816	-1,138
Michigan	-27,000	-30,308	-52,147	-60,115	-69,950	-69,619	-31,658
Minnesota	-187	-275	-284	-289	-169	0	159
Mississippi	-10,304	268	-4,119	-6,008	-2,924	-3,418	-3,682
Missouri	-208	-414	-203	8	143	-460	48
Montana	-1,532	-4,239	-4,524	-2,294	-2,024	-2,570	224
Nebraska	-308	-778	-524	-727	-422	-773	860
New Mexico	-1,903	-470	-919	-429	-180	-1,120	287
New York	-4,424	-5,650	-5,731	-7,931	-8,569	-11,697	-4,090
Ohio	-12,789	-19,356	-27,403	-31,408	-26,039	-36,194	-14,843
Oklahoma	-19,358	-12,262	-7,283	-7,570	-12,648	-23,402	-19,472
Oregon	9	-1,141	-1,143	-1,188	-1,968	0	80
Pennsylvania	-20,516	-28,003	-19,997	-33,256	-39,947	-58,295	-34,442
Tennessee	-103	-102	-112	-134	0	0	0
Texas	-34,274	-4,692	-12,193	-20,397	-20,094	-27,224	-40,175
Utah	-1,821	-3,970	-3,554	-3,497	-3,938	-3,543	267
Virginia	-204	-244	-322	-185	-296	-304	-203
Washington	718	-1,825	-3,645	-313	-2,967	-3,938	1,542
West Virginia	-6,935	-16,431	-29,122	-28,626	-26,455	-26,087	-14,668
Wyoming	-1,425	-2,614	-2,007	-2,807	-3,398	-1,332	116
AGA Regions							
Producing	-111,305	-36,017	-57,671	-73,822	-57,723	-97,929	-93,466
Eastern Consuming	-120,349	-162,103	-191,819	-219,439	-223,109	-246,072	-102,134
Western Consuming	-30,145	-25,888	-28,194	-23,795	-45,804	-46,550	-4,634
Total	-261,799	-224,007	-277,684	-317,056	-326,636	-390,552	-200,234

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	248	187	396	-162	243	243
Arkansas	1,039	875	1,057	250	1,526	651
California	-2,021	27,350	30,733	16,340	58,418	2,846
Colorado	3,844	6,255	3,470	-525	5,026	2,503
Illinois	28,954	37,109	59,692	-10,153	44,906	2,805
Indiana	4,371	3,335	4,158	984	4,193	-879
Iowa	6,794	5,558	19,310	-6,255	17,041	505
Kansas	14,242	8,141	14,910	-11,372	12,277	8,384
Kentucky	7,813	9,965	9,510	3,013	10,773	4,035
Louisiana	7,319	264	21,556	-9,248	43,644	20,997
Maryland	1,464	2,507	2,951	-544	1,298	33
Michigan	55,729	46,095	84,391	-3,388	78,027	53,016
Minnesota	416	203	444	-373	4	4
Mississippi	2,243	4,112	7,481	3,763	8,484	1,089
Missouri	423	10	458	-453	228	-207
Montana	3,017	2,554	4,421	11,962	3,169	2,760
Nebraska	1,261	425	490	-1,590	944	124
New Mexico	658	-130	-412	2,065	2,500	25
New York	8,738	9,298	11,466	304	10,735	4,857
Ohio	28,785	34,200	35,002	-7,336	40,530	15,502
Oklahoma	7,174	715	21,282	-9,482	25,362	13,995
Oregon	923	1,238	534	-1,316	1,036	-262
Pennsylvania	39,608	49,416	57,879	28,381	53,825	26,061
Tennessee	83	60	116	0	0	0
Texas	-8,935	-3,634	35,289	10,035	53,619	18,531
Utah	1,430	5,033	5,649	-7,571	13,169	2,721
Virginia	322	444	63	0	0	0
Washington	3,328	4,131	-62	-1,003	3,159	83
West Virginia	23,897	32,869	32,069	16,716	36,318	6,615
Wyoming	2,499	2,092	4,069	908	3,019	1,906
AGA Regions						
Producing	23,740	10,342	101,163	-13,990	147,412	63,672
Eastern Consuming	208,491	231,479	317,949	19,518	299,061	112,710
Western Consuming	13,435	48,858	49,259	18,423	87,001	12,560
Total	245,667	290,679	468,371	23,950	533,474	188,941

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data through 1998 are final. All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by

region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 14. Activities of Underground Natural Gas Storage Operators, by State,
November 1999**

(Volumes in Million Cubic Feet)

State	Total Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
		Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama	3,280	1,190	1,968	3,158	214	12.2	166	32
Arkansas	24,191	7,460	8,538	15,997	-203	-2.3	114	537
California	388,370	246,825	192,155	438,980	-7,409	-3.7	8,654	3,941
Colorado	99,600	48,229	41,177	89,406	-1,188	-2.8	3,412	2,537
Illinois	898,565	670,165	231,866	902,031	-26,480	-10.2	20,502	22,751
Indiana	113,210	73,876	35,526	109,401	-33	-0.1	2,740	586
Iowa	273,200	200,700	64,053	264,753	-1,736	-2.6	7,111	8,207
Kansas	301,102	179,385	99,783	279,168	-8,496	-7.8	7,514	8,493
Kentucky	219,908	109,117	101,551	210,668	-1,890	-1.8	2,191	4,474
Louisiana	563,868	266,495	250,381	516,876	-11,489	-4.4	18,164	22,924
Maryland	62,000	46,677	14,335	61,012	-573	-3.8	1,592	2,051
Michigan	1,021,675	460,267	519,051	979,318	-60,464	-10.4	15,508	22,448
Minnesota	7,000	4,623	2,330	6,953	-39	-1.6	136	7
Mississippi	134,012	76,867	46,749	123,616	-9,469	-16.8	6,612	3,971
Missouri	31,274	21,600	10,171	31,771	325	3.3	198	24
Montana	371,510	167,354	40,969	208,323	-9,471	-18.8	1,608	2,797
Nebraska	39,469	31,507	4,183	35,690	-251	-5.7	538	240
New Mexico	96,600	29,766	9,522	39,287	106	1.1	1,891	689
New York	175,129	103,063	68,513	171,576	-5,676	-7.7	3,239	4,711
Ohio	575,384	352,028	182,377	534,405	-6,800	-3.6	5,848	14,334
Oklahoma	394,827	217,527	154,253	371,779	1,611	1.1	9,760	6,965
Oregon	11,623	6,834	8,947	15,781	385	4.5	592	0
Pennsylvania	684,842	354,019	360,531	714,550	-2,951	-0.8	21,643	25,837
Tennessee	1,200	340	810	1,150	25	3.1	0	56
Texas	684,226	250,677	289,659	540,336	-1,534	-0.5	19,660	18,890
Utah	121,980	64,601	42,116	106,717	-4,696	-10.0	2,270	3,228
Virginia	4,669	2,424	2,175	4,599	-80	-3.5	45	228
Washington	37,300	19,000	17,192	36,192	2,767	19.2	1,741	1,702
West Virginia	733,158	290,827	165,723	456,550	-9,023	-5.2	6,010	16,707
Wyoming	105,869	60,782	24,593	85,375	749	3.1	360	905
AGA Regions								
Producing	2,198,826	1,028,176	858,884	1,887,060	-29,474	-3.3	63,715	62,469
Eastern Consuming	4,836,962	2,717,801	1,762,831	4,480,632	-115,394	-6.1	87,331	122,686
Western Consuming	1,143,251	618,248	369,479	987,727	-18,901	-4.9	18,773	15,118
Total	8,179,039	4,364,225	2,991,193	7,355,418	-163,769	-5.2	169,819	200,273

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. The American Gas Association (AGA) publishes weekly estimates of working

gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999
(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				October	September	August
Alabama	34,574	39,628	36,577	1,594	1,212	1,151
Alaska	13,041	11,576	11,301	1,423	870	481
Arizona	26,501	29,426	24,320	1,165	1,006	963
Arkansas	NA	30,972	32,045	NA	NA	952
California	468,214	440,900	370,477	25,260	24,491	23,371
Colorado	NA	87,222	87,973	NA	NA	NA
Connecticut	29,856	27,663	30,913	1,513	947	853
Delaware	7,157	6,289	7,088	278	169	168
District of Columbia	NA	10,598	11,972	483	325	315
Florida	10,556	12,133	10,206	641	611	605
Georgia	NA	82,909	77,997	NA	NA	NA
Hawaii	446	451	431	44	41	41
Idaho	13,835	12,055	11,441	867	436	359
Illinois	333,047	301,969	371,213	26,429	12,550	9,093
Indiana	NA	106,551	125,887	NA	NA	^R 3,329
Iowa	55,281	52,042	61,039	3,470	1,833	1,233
Kansas	NA	55,630	50,856	2,807	1,572	1,696
Kentucky	43,331	40,144	46,767	2,628	1,402	1,190
Louisiana	35,580	39,885	40,574	2,069	1,733	1,649
Maine	720	683	760	62	29	25
Maryland	NA	52,349	58,475	2,490	1,951	1,733
Massachusetts	NA	80,329	86,482	NA	NA	NA
Michigan	272,365	247,702	291,860	18,342	7,838	6,432
Minnesota	89,707	79,617	96,340	7,112	3,367	2,523
Mississippi	NA	20,768	20,709	883	796	690
Missouri	91,348	88,807	96,495	4,181	2,748	2,296
Montana	14,859	14,172	15,758	1,342	636	378
Nebraska	32,846	33,155	36,918	2,131	792	1,118
Nevada	22,497	23,162	19,433	1,214	958	926
New Hampshire	5,280	4,962	5,389	311	161	142
New Jersey	NA	154,154	165,583	NA	NA	NA
New Mexico	NA	25,025	24,312	NA	NA	NA
New York	NA	267,565	292,632	NA	NA	NA
North Carolina	42,182	40,989	38,817	1,684	1,037	924
North Dakota	8,471	7,649	8,815	662	301	197
Ohio	NA	223,106	267,716	17,320	6,865	NA
Oklahoma	50,866	54,763	54,552	2,219	1,513	1,444
Oregon	29,605	25,683	25,125	1,592	921	811
Pennsylvania	186,970	166,997	198,225	11,580	5,776	4,808
Rhode Island	13,722	13,170	14,189	691	445	399
South Carolina	19,807	20,886	18,634	737	488	448
South Dakota	9,220	8,820	10,130	607	300	224
Tennessee	NA	46,946	46,016	1,936	1,526	1,162
Texas	135,208	158,221	176,017	6,857	5,848	5,300
Utah	40,538	41,178	41,714	3,567	2,285	1,484
Vermont	2,075	1,953	2,071	124	59	57
Virginia	NA	47,917	54,327	2,928	1,488	1,404
Washington	NA	49,215	42,813	NA	NA	NA
West Virginia	NA	22,898	25,918	1,349	688	NA
Wisconsin	94,658	85,535	100,647	7,988	3,442	2,821
Wyoming	9,547	9,852	9,484	746	508	251
Total	3,656,902	3,506,269	3,755,432	225,077	136,170	^R 117,765

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999					
	July	June	May	April	March	February
Alabama	1,287	1,387	1,914	3,979	6,535	6,297
Alaska	486	559	939	1,315	2,075	2,223
Arizona	1,065	1,352	2,109	3,319	3,694	5,415
Arkansas	998	1,030	1,641	3,732	5,157	5,260
California	25,721	32,952	40,596	62,112	67,403	77,973
Colorado	NA	4,769	9,761	10,816	13,735	15,467
Connecticut	946	1,128	1,879	3,623	5,780	6,082
Delaware	201	254	497	989	1,574	1,469
District of Columbia	NA	399	687	1,269	2,324	2,309
Florida	647	712	841	1,217	1,651	1,500
Georgia	2,246	1,525	NA	4,937	11,239	13,564
Hawaii	45	43	44	46	44	48
Idaho	428	645	1,244	1,875	2,257	2,633
Illinois	9,972	11,127	15,873	31,264	61,443	61,466
Indiana	^a 3,672	5,062	NA	NA	NA	NA
Iowa	1,825	1,597	3,082	5,544	9,861	10,655
Kansas	1,556	2,170	3,603	6,284	NA	NA
Kentucky	1,174	1,336	1,806	4,113	9,268	8,782
Louisiana	1,761	1,908	2,264	3,754	5,450	5,871
Maine	22	31	45	76	131	133
Maryland	NA	2,172	NA	6,125	NA	NA
Massachusetts	NA	NA	NA	NA	NA	17,836
Michigan	6,908	10,413	16,098	31,611	53,870	52,118
Minnesota	2,243	3,103	4,967	8,560	15,337	17,086
Mississippi	784	813	1,063	NA	3,709	3,016
Missouri	2,557	3,089	5,321	9,692	16,624	18,572
Montana	518	645	1,380	1,894	2,114	2,494
Nebraska	1,003	1,180	2,630	3,735	5,726	5,954
Nevada	945	1,240	1,853	2,718	3,349	4,332
New Hampshire	153	195	371	672	991	1,036
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	822	922	1,163	2,876	6,499	4,912
New York	NA	NA	NA	NA	NA	NA
North Carolina	1,118	1,316	2,605	5,341	9,456	7,485
North Dakota	232	266	627	984	1,318	1,565
Ohio	6,624	7,972	12,577	26,862	51,348	49,202
Oklahoma	1,657	1,923	3,079	6,228	8,399	9,446
Oregon	839	1,635	2,754	3,888	5,047	5,783
Pennsylvania	5,112	6,518	11,260	21,700	37,498	36,752
Rhode Island	531	557	949	1,702	2,704	2,662
South Carolina	492	570	1,195	2,226	4,375	3,588
South Dakota	274	324	629	1,140	1,486	1,719
Tennessee	1,066	1,422	NA	NA	7,650	8,927
Texas	5,982	6,729	8,323	14,678	18,993	22,662
Utah	2,254	1,648	2,663	5,267	5,425	7,725
Vermont	56	77	159	284	377	387
Virginia	1,524	1,605	NA	5,135	11,359	11,272
Washington	NA	NA	NA	NA	NA	NA
West Virginia	533	NA	NA	NA	NA	4,946
Wisconsin	2,675	3,272	5,018	9,062	16,429	17,018
Wyoming	310	497	1,095	1,225	1,313	1,674
Total	^a128,562	155,137	234,464	416,530	660,439	680,078

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	9,218	46,544	4,447	2,468	1,320	1,196
Alaska	2,668	15,617	2,183	1,858	1,346	818
Arizona	6,411	36,100	4,666	2,008	1,136	940
Arkansas	9,049	38,190	4,550	2,668	1,109	861
California	88,334	549,931	68,831	40,200	26,159	22,038
Colorado	21,300	110,839	14,812	8,806	4,366	2,806
Connecticut	7,104	35,329	4,442	3,224	1,518	927
Delaware	1,560	7,755	895	571	231	176
District of Columbia	2,915	13,249	1,563	1,088	459	340
Florida	2,130	14,102	1,127	842	685	657
Georgia	17,037	107,398	15,049	9,441	4,325	2,889
Hawaii	49	535	44	40	39	41
Idaho	3,090	16,002	2,438	1,510	657	316
Illinois	93,829	409,812	63,990	43,853	21,536	10,506
Indiana	32,227	140,122	20,031	13,541	6,497	3,221
Iowa	16,180	68,901	10,514	6,345	3,030	1,435
Kansas	NA	70,217	8,767	5,820	2,322	1,479
Kentucky	11,632	55,545	9,289	6,112	2,220	1,150
Louisiana	9,121	47,574	4,987	2,703	1,785	1,719
Maine	165	910	132	95	62	27
Maryland	14,660	68,057	9,224	6,485	2,863	1,882
Massachusetts	12,570	102,062	12,366	9,367	4,301	2,588
Michigan	68,735	319,701	42,328	29,671	15,956	7,580
Minnesota	25,409	110,449	18,639	12,193	5,319	2,678
Mississippi	5,463	24,847	2,556	1,524	805	725
Missouri	26,270	110,779	13,873	8,099	3,355	2,627
Montana	3,457	19,172	2,931	2,069	1,266	477
Nebraska	8,576	40,771	4,230	3,386	1,623	883
Nevada	4,962	30,023	4,335	2,526	1,367	824
New Hampshire	1,246	6,267	739	566	294	159
New Jersey	NA	196,658	25,091	17,413	8,720	5,100
New Mexico	9,831	35,877	7,299	3,552	1,171	841
New York	NA	339,512	41,937	30,010	15,308	9,546
North Carolina	11,215	50,786	5,735	4,062	1,217	973
North Dakota	2,320	10,092	1,427	1,016	475	198
Ohio	59,175	296,576	43,384	30,086	16,290	6,390
Oklahoma	14,958	66,521	7,513	4,245	1,743	1,449
Oregon	6,336	34,417	5,555	3,180	1,445	767
Pennsylvania	45,967	217,929	29,772	21,159	10,204	5,161
Rhode Island	3,083	16,461	1,883	1,408	645	436
South Carolina	5,687	25,430	2,818	1,726	575	471
South Dakota	2,516	11,646	1,669	1,157	533	248
Tennessee	14,795	59,386	8,043	4,397	1,447	1,159
Texas	39,835	199,454	28,302	12,931	7,323	5,893
Utah	8,220	56,843	9,846	5,820	4,472	1,916
Vermont	496	2,454	289	213	102	114
Virginia	13,064	63,186	9,067	6,203	2,499	1,467
Washington	NA	61,936	7,989	4,731	2,427	1,667
West Virginia	6,230	29,664	3,974	2,791	1,300	623
Wisconsin	26,931	115,946	18,710	11,701	6,381	2,723
Wyoming	1,929	12,702	1,636	1,214	773	310
Total	902,680	4,520,276	615,913	398,094	202,996	121,417

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	1,183	1,212	1,394	2,354	4,584	7,486
Alaska	648	479	628	933	1,239	1,529
Arizona	902	1,070	1,385	2,107	3,722	5,362
Arkansas	872	963	1,006	1,725	3,926	6,076
California	21,625	25,149	33,208	38,119	54,074	62,009
Colorado	2,541	3,454	1,664	7,886	11,619	16,272
Connecticut	839	1,017	1,183	1,858	3,600	4,997
Delaware	164	196	250	446	840	1,240
District of Columbia	328	372	436	638	1,198	2,038
Florida	649	705	779	920	1,509	1,881
Georgia	2,850	2,981	3,210	3,577	8,076	16,448
Hawaii	40	45	47	41	49	45
Idaho	292	403	667	906	1,563	2,035
Illinois	10,434	9,488	11,525	14,764	32,946	60,088
Indiana	2,803	2,817	3,739	5,390	12,074	21,395
Iowa	1,445	1,596	1,436	2,808	5,824	10,640
Kansas	1,546	1,746	2,092	3,604	7,007	11,261
Kentucky	1,081	1,293	1,295	1,955	3,926	8,142
Louisiana	1,588	1,774	1,815	2,464	4,059	7,043
Maine	25	22	31	45	71	120
Maryland	1,904	1,874	2,139	3,047	5,778	9,697
Massachusetts	2,370	2,848	3,827	5,550	10,361	14,826
Michigan	6,782	7,330	9,848	13,991	31,983	47,775
Minnesota	2,461	2,540	2,765	3,735	7,122	16,348
Mississippi	718	729	812	1,253	2,283	3,861
Missouri	2,192	2,643	3,141	5,002	10,481	17,840
Montana	471	499	669	865	1,672	2,426
Nebraska	1,030	1,011	1,202	1,968	4,339	6,505
Nevada	813	977	1,487	1,884	2,826	3,809
New Hampshire	156	169	220	355	643	853
New Jersey	4,945	5,345	6,164	12,559	18,824	28,392
New Mexico	846	828	286	1,279	2,609	4,776
New York	8,900	15,342	12,205	18,810	32,412	48,382
North Carolina	914	1,058	1,207	2,272	5,083	7,633
North Dakota	204	230	286	480	935	1,436
Ohio	7,314	8,085	8,568	11,640	25,083	44,588
Oklahoma	1,409	1,624	1,889	3,326	6,412	11,028
Oregon	668	944	1,684	2,174	2,900	4,303
Pennsylvania	5,058	5,332	6,834	9,648	19,457	32,685
Rhode Island	438	462	622	1,001	1,662	2,402
South Carolina	446	461	543	1,067	2,457	4,060
South Dakota	227	274	304	508	1,127	1,738
Tennessee	1,093	1,164	1,397	2,586	4,992	9,552
Texas	5,774	6,039	6,086	9,090	15,365	27,829
Utah	1,335	1,266	1,962	2,248	4,863	6,494
Vermont	57	56	77	118	266	340
Virginia	1,075	1,435	1,747	2,525	4,741	9,677
Washington	1,574	1,765	2,312	3,221	5,827	8,950
West Virginia	526	513	670	1,278	2,879	4,540
Wisconsin	2,768	2,421	3,444	4,075	9,186	17,107
Wyoming	307	345	523	735	1,278	1,658
Total	116,631	132,390	152,708	220,830	407,752	647,619

^R Revised Data.

NA Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia.
See Appendix A, Explanatory Note 5 for discussion of computations and

revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999
(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				October	September	August
Alabama	22,918	21,575	26,177	2,176	1,711	1,635
Alaska	20,691	21,038	21,104	2,185	1,520	1,311
Arizona	25,575	26,048	24,359	1,910	1,809	1,683
Arkansas	NA	22,894	22,737	NA	NA	1,520
California	221,820	223,656	204,094	15,657	16,411	20,556
Colorado	NA	50,727	53,170	NA	NA	NA
Connecticut	37,380	34,096	32,925	2,641	1,774	2,449
Delaware	5,007	4,513	5,249	305	179	159
District of Columbia	NA	14,176	14,279	896	862	840
Florida	28,560	31,521	29,817	2,065	2,147	1,965
Georgia	NA	45,795	43,047	NA	NA	NA
Hawaii	1,457	1,452	1,550	144	144	140
Idaho	9,926	8,992	8,767	676	459	420
Illinois	145,845	132,851	152,895	11,908	6,919	6,187
Indiana	NA	56,501	62,380	NA	NA	NA
Iowa	35,142	32,761	37,274	2,575	1,626	1,246
Kansas	NA	34,177	32,221	1,934	1,792	1,958
Kentucky	28,014	24,552	28,294	1,860	1,189	1,845
Louisiana	20,046	20,111	20,480	1,628	1,374	1,484
Maine	1,955	1,873	2,050	165	78	74
Maryland	NA	46,008	38,258	3,160	3,063	3,081
Massachusetts	NA	76,018	85,740	NA	NA	NA
Michigan	138,324	127,523	147,322	9,440	5,870	4,984
Minnesota	68,490	60,797	69,170	5,737	3,175	2,956
Mississippi	NA	17,771	17,105	1,079	1,047	1,063
Missouri	52,172	50,402	54,060	2,805	2,423	2,080
Montana	9,255	9,687	10,579	733	426	346
Nebraska	22,854	22,759	27,586	1,156	1,067	772
Nevada	19,251	18,895	17,520	1,403	1,268	1,804
New Hampshire	NA	5,387	5,776	384	221	227
New Jersey	NA	115,003	129,576	NA	NA	NA
New Mexico	NA	20,847	20,569	NA	NA	NA
New York	NA	273,053	258,550	NA	NA	NA
North Carolina	37,187	29,840	29,079	2,132	1,842	1,595
North Dakota	8,224	7,700	8,398	635	338	262
Ohio	NA	119,806	140,794	9,003	4,789	NA
Oklahoma	32,530	35,567	35,275	2,100	1,878	1,677
Oregon	22,815	19,687	20,063	1,486	1,092	983
Pennsylvania	111,411	101,248	110,250	8,541	5,168	4,672
Rhode Island	9,510	9,120	9,675	651	454	334
South Carolina	17,377	16,371	15,164	1,251	1,144	1,073
South Dakota	7,614	7,045	8,086	522	301	267
Tennessee	NA	42,418	42,154	3,225	2,919	2,265
Texas	153,731	135,112	172,671	11,359	11,568	12,805
Utah	22,735	22,819	22,698	1,873	1,257	902
Vermont	1,942	2,303	2,367	143	81	77
Virginia	NA	45,763	47,091	3,541	2,617	2,671
Washington	NA	36,525	32,032	NA	NA	NA
West Virginia	NA	19,678	19,713	1,960	1,410	NA
Wisconsin	67,725	61,102	66,036	5,823	2,968	3,189
Wyoming	7,504	7,664	8,700	761	378	229
Total	2,459,232	2,373,227	2,494,924	186,788	144,298	145,103

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999					
	July	June	May	April	March	February
Alabama	1,626	1,628	1,505	2,190	3,240	3,145
Alaska	1,213	1,326	1,759	1,962	3,009	3,088
Arizona	1,846	2,155	2,519	2,994	3,173	3,587
Arkansas	1,303	NA	NA	2,508	3,392	3,510
California	^R 17,100	^R 17,228	^R 21,902	^R 22,672	29,559	^R 28,130
Colorado	NA	3,359	5,544	NA	7,598	8,919
Connecticut	2,535	2,591	3,204	3,724	5,831	6,038
Delaware	182	215	350	637	998	944
District of Columbia	NA	940	1,249	1,976	2,334	2,549
Florida	2,001	2,436	2,793	3,408	3,962	3,747
Georgia	1,643	1,712	NA	2,968	5,657	5,897
Hawaii	144	143	143	147	142	158
Idaho	425	520	852	1,233	1,532	1,734
Illinois	6,218	5,979	8,316	14,051	24,495	26,217
Indiana	^R 2,795	NA	NA	NA	NA	12,336
Iowa	1,520	1,406	1,762	3,777	6,196	6,154
Kansas	1,687	1,504	2,018	3,336	NA	NA
Kentucky	1,014	1,218	1,690	2,570	5,149	4,979
Louisiana	1,416	1,493	1,625	2,087	2,520	2,729
Maine	75	90	122	199	357	341
Maryland	NA	3,186	NA	5,678	NA	NA
Massachusetts	NA	4,936	5,322	9,335	10,580	NA
Michigan	5,465	6,183	9,050	14,920	25,952	25,441
Minnesota	2,645	2,860	4,058	6,911	11,125	12,637
Mississippi	1,054	1,078	^R 1,204	NA	2,676	2,196
Missouri	3,128	2,471	3,258	5,235	8,535	9,736
Montana	423	492	734	1,153	1,308	1,542
Nebraska	1,074	1,123	1,827	2,308	3,484	4,246
Nevada	1,935	1,400	1,703	1,977	2,372	2,486
New Hampshire	212	266	NA	658	1,026	1,070
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	1,489	1,524	1,970	2,728	3,324	3,748
New York	NA	NA	NA	NA	NA	NA
North Carolina	1,586	1,698	2,221	3,583	9,816	6,322
North Dakota	279	286	623	909	1,253	1,558
Ohio	4,701	5,540	7,871	15,260	24,202	26,668
Oklahoma	1,697	938	2,265	3,813	4,620	5,679
Oregon	1,128	1,462	2,053	2,699	3,462	3,897
Pennsylvania	4,536	5,041	6,751	12,734	20,162	21,547
Rhode Island	501	526	650	1,085	1,731	1,686
South Carolina	1,127	1,109	1,343	1,948	3,188	2,236
South Dakota	313	438	493	914	1,149	1,343
Tennessee	2,287	3,361	2,601	NA	6,378	6,629
Texas	12,486	12,020	12,790	15,844	17,651	19,696
Utah	1,090	989	1,858	2,920	3,068	4,198
Vermont	66	91	140	227	334	321
Virginia	2,613	2,584	NA	5,242	7,620	8,070
Washington	NA	NA	NA	NA	NA	NA
West Virginia	1,235	NA	^R 1,524	2,253	3,496	3,389
Wisconsin	3,056	2,948	3,362	6,980	11,437	11,592
Wyoming	361	448	844	941	1,070	1,120
Total	^R140,315	^R144,172	^R179,670	^R260,656	383,047	^R394,896

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999
(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	4,063	25,707	2,414	1,716	1,248	1,091
Alaska	3,318	27,079	3,372	2,668	2,318	1,619
Arizona	3,899	31,940	3,388	2,352	1,900	1,738
Arkansas	5,524	28,063	3,169	1,999	1,359	1,143
California	^R 32,605	284,885	31,538	26,959	23,016	22,759
Colorado	11,360	63,145	7,432	4,973	3,321	2,371
Connecticut	6,594	42,410	4,986	3,251	2,678	2,033
Delaware	1,038	5,592	629	448	243	180
District of Columbia	2,486	16,866	1,480	1,205	879	833
Florida	4,038	37,743	3,320	2,818	2,603	2,556
Georgia	7,205	55,431	5,531	4,094	3,045	2,584
Hawaii	153	1,747	151	143	132	140
Idaho	2,076	11,712	1,640	1,045	577	386
Illinois	35,555	174,747	24,727	17,109	9,948	6,521
Indiana	16,862	73,184	9,557	7,058	4,311	2,897
Iowa	8,881	43,028	6,006	4,261	2,402	1,210
Kansas	NA	41,788	4,591	3,019	1,588	1,323
Kentucky	6,499	32,468	4,714	3,198	1,601	1,089
Louisiana	3,691	24,049	2,224	1,707	1,352	1,285
Maine	454	2,456	337	247	165	78
Maryland	9,013	57,432	6,433	4,928	3,287	2,832
Massachusetts	6,662	90,099	6,635	7,440	5,698	2,359
Michigan	31,020	163,400	20,671	15,174	8,608	5,685
Minnesota	16,386	82,377	12,652	8,896	5,356	2,717
Mississippi	NA	21,360	2,075	1,512	1,155	1,327
Missouri	12,503	62,000	7,177	4,415	2,389	2,192
Montana	2,096	12,961	1,925	1,340	845	439
Nebraska	5,797	28,911	3,934	2,218	1,036	963
Nevada	2,903	23,347	2,565	1,855	1,307	1,110
New Hampshire	1,312	6,808	810	612	371	222
New Jersey	NA	146,654	18,767	12,883	8,677	7,010
New Mexico	5,051	27,395	4,125	2,233	1,249	1,090
New York	NA	335,800	34,796	27,494	20,887	16,899
North Carolina	6,392	36,427	3,847	2,741	1,767	1,594
North Dakota	2,083	10,085	1,362	1,020	547	324
Ohio	28,502	157,061	21,929	14,894	6,706	4,995
Oklahoma	7,865	43,910	5,463	2,771	1,644	1,628
Oregon	4,554	26,024	3,619	2,681	1,291	1,023
Pennsylvania	22,259	131,036	16,940	12,808	7,032	4,507
Rhode Island	1,892	11,482	1,338	1,019	628	483
South Carolina	2,957	19,829	1,926	1,531	1,156	1,065
South Dakota	1,873	9,265	1,305	913	363	269
Tennessee	9,437	52,406	5,924	4,053	2,520	2,390
Texas	27,511	169,613	19,965	14,533	10,107	12,410
Utah	4,580	31,091	4,934	3,202	2,083	1,028
Vermont	462	2,979	401	276	165	125
Virginia	9,051	58,318	7,186	5,334	3,287	2,449
Washington	NA	45,673	5,595	3,442	2,102	1,869
West Virginia	3,961	24,991	2,963	2,345	1,579	1,237
Wisconsin	16,370	81,375	11,803	8,411	4,360	3,317
Wyoming	1,352	10,423	1,822	927	493	343
Total	^R 480,288	3,004,570	362,095	264,170	173,381	139,737

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	1,026	1,027	1,122	1,457	2,386	3,566
Alaska	1,414	1,415	1,511	1,976	2,222	2,604
Arizona	1,719	1,899	2,073	2,494	3,011	3,549
Arkansas	1,205	1,277	1,213	1,431	2,544	3,855
California	25,640	23,301	16,352	20,004	20,978	17,981
Colorado	2,166	2,655	3,087	4,320	6,187	8,262
Connecticut	2,171	2,448	2,143	2,115	4,279	4,980
Delaware	176	191	227	321	558	812
District of Columbia	843	867	909	1,080	1,824	2,028
Florida	2,640	2,618	2,799	3,059	3,615	3,722
Georgia	2,618	2,712	2,718	3,243	4,687	7,438
Hawaii	155	134	148	140	145	140
Idaho	380	405	535	686	1,072	1,417
Illinois	6,399	5,203	6,242	6,893	15,152	23,767
Indiana	1,984	2,413	2,650	3,206	6,292	9,874
Iowa	1,166	1,353	1,200	1,513	3,593	6,362
Kansas	1,713	1,811	1,619	1,973	3,225	7,699
Kentucky	1,073	996	1,096	1,466	2,423	4,522
Louisiana	1,364	1,290	1,458	1,597	2,147	2,982
Maine	74	75	90	122	195	316
Maryland	3,085	2,933	3,126	3,478	4,897	7,138
Massachusetts	3,606	4,264	5,336	5,846	9,039	11,907
Michigan	5,694	5,197	6,183	8,265	15,595	22,766
Minnesota	2,289	2,003	2,992	3,171	5,531	11,517
Mississippi	1,198	1,265	1,192	1,229	1,645	2,635
Missouri	3,005	2,184	2,450	2,984	5,556	8,999
Montana	415	424	481	589	1,089	1,605
Nebraska	862	1,085	869	1,717	2,829	4,097
Nevada	1,071	1,323	1,605	1,898	2,213	2,667
New Hampshire	229	228	280	376	623	898
New Jersey	5,711	5,924	6,478	9,830	11,710	20,041
New Mexico	1,073	1,039	963	1,603	2,384	3,357
New York	22,277	18,694	16,706	20,849	29,457	37,862
North Carolina	1,571	1,437	1,583	1,975	3,222	4,732
North Dakota	348	280	305	497	935	1,343
Ohio	4,036	5,461	5,162	7,127	13,278	21,607
Oklahoma	1,641	1,585	1,808	2,315	4,249	6,218
Oregon	880	1,030	1,440	1,626	2,096	3,136
Pennsylvania	4,996	4,584	5,005	5,955	11,091	16,969
Rhode Island	195	496	506	694	1,141	1,518
South Carolina	1,028	1,011	1,058	1,208	1,728	2,417
South Dakota	262	282	285	538	806	1,333
Tennessee	2,215	2,365	2,503	3,003	4,490	6,814
Texas	11,729	13,215	9,114	10,425	11,880	16,276
Utah	845	847	1,156	1,513	2,755	3,795
Vermont	100	102	110	116	281	381
Virginia	1,857	2,652	2,572	3,547	4,806	7,713
Washington	1,818	1,947	2,291	2,738	4,236	5,824
West Virginia	1,185	1,102	1,146	1,273	2,176	3,154
Wisconsin	3,096	2,893	3,347	3,569	6,609	11,009
Wyoming	253	371	442	597	936	1,279
Total	144,498	142,313	137,688	169,645	255,821	366,881

^R Revised Data.^{NA} Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of

natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				October	September	August
Alabama	169,022	167,961	164,527	17,404	16,497	16,973
Alaska	60,698	63,253	61,197	6,613	4,738	4,784
Arizona	22,113	23,172	22,820	1,910	2,160	2,276
Arkansas	NA	123,294	121,922	12,568	11,997	12,415
California	778,131	685,997	609,881	104,100	98,766	94,185
Colorado	NA	71,918	60,193	NA	NA	NA
Connecticut	25,159	27,004	28,285	2,637	2,283	2,308
Delaware	17,837	13,337	11,872	1,878	1,798	1,670
District of Columbia	0	0	0	0	0	0
Florida	119,118	105,814	108,892	12,236	11,153	12,870
Georgia	NA	137,770	148,734	NA	NA	NA
Hawaii	379	0	0	39	39	41
Idaho ^a	27,977	28,866	28,732	2,941	2,735	2,173
Illinois	251,050	246,847	258,867	24,758	22,294	21,598
Indiana	NA	237,853	235,498	NA	NA	^R 20,696
Iowa	86,741	86,929	87,347	8,267	7,486	7,425
Kansas	NA	92,351	96,325	4,188	6,904	9,497
Kentucky	75,601	76,483	77,729	7,899	6,954	6,321
Louisiana	804,067	767,560	837,234	83,139	76,490	78,575
Maine	1,848	1,871	2,013	224	190	179
Maryland	NA	31,926	47,801	2,990	2,918	2,927
Massachusetts	NA	102,198	91,136	NA	NA	NA
Michigan	230,285	232,918	276,983	21,628	19,077	18,271
Minnesota	87,101	86,347	87,044	7,735	7,064	9,164
Mississippi	NA	65,494	68,638	6,962	6,310	6,287
Missouri	NA	54,152	58,162	4,991	4,689	4,815
Montana	18,725	17,180	14,746	1,649	1,305	1,326
Nebraska	34,557	46,204	36,708	3,600	4,465	3,949
Nevada	27,395	22,912	24,318	2,826	2,795	2,745
New Hampshire	4,998	4,864	4,920	571	471	478
New Jersey	NA	169,927	170,079	NA	NA	NA
New Mexico	NA	20,701	21,323	NA	NA	NA
New York	NA	216,081	252,235	22,097	22,229	NA
North Carolina	88,849	88,800	92,215	6,788	8,712	10,082
North Dakota	15,192	16,938	17,195	1,201	1,295	^R 1,130
Ohio	NA	273,690	274,809	27,088	24,938	NA
Oklahoma	118,287	171,725	174,127	10,807	10,617	9,782
Oregon	121,893	84,623	71,862	9,406	8,301	37,974
Pennsylvania	199,961	190,991	194,294	19,248	18,426	18,582
Rhode Island	28,488	35,132	20,145	2,322	2,535	2,496
South Carolina	84,664	84,420	85,016	9,005	7,996	7,948
South Dakota	4,148	4,482	5,704	466	305	437
Tennessee	NA	118,756	114,260	18,548	14,597	13,428
Texas	NA	1,626,355	1,721,071	105,398	182,830	142,569
Utah	33,507	38,116	35,554	3,582	3,192	3,180
Vermont	2,219	1,722	1,874	261	183	176
Virginia	NA	77,297	70,841	6,033	NA	13,726
Washington	NA	108,506	88,639	NA	NA	NA
West Virginia	NA	41,755	47,353	3,458	3,220	^R 3,367
Wisconsin	119,491	113,809	126,031	12,469	10,307	9,595
Wyoming	NA	45,189	38,569	NA	NA	NA
Total	7,107,820	7,151,489	7,295,717	699,844	738,109	^R 732,715

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999					
	July	June	May	April	March	February
Alabama	16,525	15,938	15,947	17,042	19,174	16,360
Alaska	6,932	5,923	6,318	6,244	6,717	5,805
Arizona	1,987	1,956	2,390	2,545	2,237	2,291
Arkansas	10,987	NA	11,429	11,732	12,582	11,561
California	82,007	68,105	69,662	61,776	57,968	71,293
Colorado	NA	5,605	6,202	7,672	6,272	6,951
Connecticut	2,221	2,055	2,419	2,504	2,790	2,957
Delaware	1,757	1,459	1,789	1,767	1,952	1,878
District of Columbia	0	0	0	0	0	0
Florida	12,478	11,739	11,827	12,512	12,603	10,480
Georgia	8,080	7,177	NA	10,118	13,140	12,545
Hawaii	40	43	35	38	39	33
Idaho ^a	2,450	2,528	2,885	3,167	3,214	3,081
Illinois	21,500	21,056	21,281	25,516	29,721	29,436
Indiana	^R 22,039	^R 21,508	NA	NA	NA	26,942
Iowa	7,195	6,980	8,326	10,104	9,569	9,554
Kansas	9,275	7,751	NA	8,130	8,482	7,588
Kentucky	6,402	6,535	7,087	7,610	9,289	8,179
Louisiana	80,375	80,397	84,470	79,888	82,222	73,872
Maine	153	184	171	161	189	104
Maryland	2,508	2,401	NA	2,845	4,068	3,261
Massachusetts	NA	NA	8,740	NA	NA	8,643
Michigan	19,911	20,416	22,851	24,820	28,068	26,451
Minnesota	7,598	7,874	7,457	8,485	9,697	11,186
Mississippi	6,669	6,807	7,007	NA	^R 7,375	6,541
Missouri	4,751	4,801	4,615	5,395	5,127	NA
Montana	1,293	1,694	1,968	2,120	2,174	2,554
Nebraska	5,432	2,700	2,565	1,178	3,098	3,330
Nevada	2,504	2,573	2,811	2,635	2,816	2,674
New Hampshire	442	457	486	578	505	484
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	3,371	3,279	3,606	NA	3,355	3,047
New York	NA	NA	NA	NA	NA	NA
North Carolina	9,288	8,970	8,857	8,867	9,231	8,052
North Dakota	1,155	1,266	1,351	1,479	2,037	2,844
Ohio	23,427	23,595	25,248	28,808	32,257	31,603
Oklahoma	9,601	11,576	11,173	13,128	12,486	14,323
Oregon	8,008	7,861	8,216	8,923	15,206	8,595
Pennsylvania	17,497	17,687	18,565	20,802	23,245	23,747
Rhode Island	2,969	2,948	3,343	2,996	2,528	2,930
South Carolina	7,342	7,708	8,102	9,910	9,614	8,225
South Dakota	419	282	347	446	439	463
Tennessee	12,826	11,262	12,000	NA	14,017	12,922
Texas	120,019	142,830	NA	136,782	144,116	159,127
Utah	3,200	2,351	3,422	3,809	3,718	3,350
Vermont	174	157	192	243	301	312
Virginia	12,484	11,269	NA	10,632	8,644	7,305
Washington	NA	NA	NA	NA	NA	NA
West Virginia	3,942	NA	3,225	NA	NA	3,460
Wisconsin	9,235	9,243	10,081	12,061	14,729	14,428
Wyoming	NA	3,056	2,980	3,622	3,837	NA
Total	^R661,004	^R664,280	686,237	681,677	^R728,377	724,777

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	17,161	200,305	16,372	15,972	16,540	15,244
Alaska	6,626	75,947	6,439	6,255	6,289	5,678
Arizona	2,360	28,157	2,605	2,381	2,518	2,073
Arkansas	13,069	147,313	12,537	11,482	11,877	12,825
California	70,270	827,401	74,100	67,304	77,426	85,852
Colorado	4,630	87,238	8,462	6,859	6,020	5,309
Connecticut	2,985	32,498	2,838	2,656	2,647	2,217
Delaware	1,887	16,287	1,529	1,421	1,416	1,186
District of Columbia	0	0	0	0	0	0
Florida	11,219	126,891	10,374	10,704	10,000	10,654
Georgia	12,929	164,501	13,256	13,475	12,265	9,104
Hawaii	32	373	373	0	0	0
Idaho ^a	2,802	34,303	2,635	2,803	2,715	2,705
Illinois	33,890	303,668	28,912	27,909	25,306	21,621
Indiana	NA	290,973	28,353	24,767	24,269	23,418
Iowa	11,836	105,950	9,261	9,761	9,239	7,874
Kansas	NA	111,143	8,731	10,061	9,356	7,352
Kentucky	9,326	93,217	8,502	8,232	7,864	6,815
Louisiana	84,638	922,155	87,893	66,701	77,953	79,775
Maine	293	2,297	204	222	227	193
Maryland	2,727	38,531	3,564	3,041	3,714	3,104
Massachusetts	8,763	125,286	12,200	10,887	10,111	9,073
Michigan	28,793	282,036	25,198	23,921	21,034	17,171
Minnesota	10,841	104,610	9,322	8,941	9,052	7,632
Mississippi	NA	78,640	6,811	6,335	6,353	6,054
Missouri	6,562	64,868	5,988	4,728	5,145	4,520
Montana	2,642	21,416	2,260	1,976	1,732	1,496
Nebraska	4,240	53,053	3,124	3,724	3,475	3,341
Nevada	3,016	28,662	3,003	2,747	2,848	1,830
New Hampshire	526	5,878	484	531	555	476
New Jersey	NA	204,791	18,623	16,241	15,186	16,072
New Mexico	NA	25,048	2,239	2,108	2,250	2,150
New York	NA	251,591	16,736	18,774	16,275	19,142
North Carolina	10,001	106,497	8,862	8,835	8,618	8,125
North Dakota	1,434	20,606	1,898	1,770	1,176	1,709
Ohio	33,159	332,955	31,327	27,938	27,071	23,596
Oklahoma	14,794	198,110	13,058	13,327	18,083	19,908
Oregon	9,403	102,770	9,258	8,889	9,230	8,680
Pennsylvania	22,161	231,362	21,244	19,127	18,138	17,766
Rhode Island	3,421	42,278	3,480	3,666	3,832	3,533
South Carolina	8,813	102,324	8,973	8,931	8,668	8,301
South Dakota	545	5,607	572	553	322	414
Tennessee	13,545	145,773	14,316	12,701	12,852	10,349
Texas	185,739	2,023,278	209,528	187,395	168,879	158,949
Utah	3,703	45,501	3,839	3,546	3,444	3,204
Vermont	220	2,105	202	181	179	154
Virginia	5,437	92,801	7,567	7,937	8,992	7,880
Washington	NA	133,106	11,961	12,639	6,931	13,051
West Virginia	^b 3,865	49,807	4,143	3,909	3,927	3,714
Wisconsin	17,342	141,980	14,896	13,275	11,457	9,745
Wyoming	4,360	54,259	4,642	4,428	4,172	3,612
Total	^a790,800	8,686,147	802,693	731,965	717,629	694,645

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	16,751	16,002	16,576	17,234	16,823	18,091
Alaska	6,864	6,519	6,228	5,832	6,431	6,852
Arizona	2,504	2,302	2,031	2,310	2,275	2,409
Arkansas	12,791	11,978	12,002	12,230	12,253	12,912
California	82,886	73,063	54,921	67,768	60,386	48,465
Colorado	6,839	6,378	6,506	7,336	8,116	8,190
Connecticut	2,479	2,287	2,237	2,560	2,786	3,202
Delaware	1,223	1,100	1,164	1,260	1,354	1,514
District of Columbia	0	0	0	0	0	0
Florida	10,120	10,580	10,668	10,917	10,903	11,488
Georgia	13,568	12,862	14,709	14,119	14,541	15,415
Hawaii	0	0	0	0	0	0
Idaho ^a	2,533	2,623	2,675	2,596	3,051	3,134
Illinois	20,197	20,023	20,511	22,247	26,535	29,044
Indiana	21,679	21,517	21,370	22,528	21,907	27,184
Iowa	8,136	7,603	7,334	7,470	8,888	10,674
Kansas	10,556	11,987	9,829	8,608	8,114	8,807
Kentucky	6,805	6,830	6,844	7,076	7,598	8,989
Louisiana	80,974	78,083	70,377	72,612	74,984	77,310
Maine	181	155	187	170	183	184
Maryland	3,073	3,044	3,030	3,104	3,160	3,680
Massachusetts	10,001	9,545	10,055	8,845	10,925	10,918
Michigan	16,407	16,866	21,068	23,258	25,202	30,195
Minnesota	8,244	7,755	7,895	6,943	8,777	9,431
Mississippi	6,090	5,999	6,139	6,319	6,642	7,487
Missouri	4,621	4,497	4,704	4,724	5,573	6,810
Montana	1,396	1,425	1,595	1,571	1,943	1,904
Nebraska	5,908	8,653	4,434	3,822	3,579	4,246
Nevada	2,751	2,473	2,360	2,476	2,399	2,190
New Hampshire	498	438	431	473	494	523
New Jersey	16,183	15,073	15,090	15,999	16,922	19,200
New Mexico	2,194	2,191	1,952	1,933	1,964	1,948
New York	19,693	20,346	21,141	19,153	22,886	25,653
North Carolina	8,495	7,932	8,315	8,761	8,825	10,054
North Dakota	1,601	1,529	1,802	1,878	1,740	1,811
Ohio	22,907	22,468	23,470	25,447	29,007	31,973
Oklahoma	18,714	17,475	16,899	14,356	15,067	17,380
Oregon	9,122	8,404	7,480	7,296	8,853	8,983
Pennsylvania	17,354	16,933	17,792	17,910	19,952	22,424
Rhode Island	3,403	3,577	3,445	3,746	3,816	3,020
South Carolina	8,229	7,443	8,284	8,494	7,946	8,837
South Dakota	444	414	306	704	304	510
Tennessee	11,495	10,023	10,286	11,432	12,078	14,111
Texas	170,716	179,303	152,107	157,316	153,562	162,415
Utah	3,049	3,434	3,688	3,678	4,494	4,285
Vermont	135	153	152	164	164	194
Virginia	9,398	8,138	8,143	6,310	7,734	6,476
Washington	13,388	11,020	8,350	6,254	13,105	14,395
West Virginia	3,798	3,856	3,932	3,912	4,362	4,958
Wisconsin	9,280	7,600	9,262	9,508	11,720	15,006
Wyoming	3,775	3,937	4,042	5,133	3,966	4,879
Total	719,443	703,835	653,817	675,793	704,289	749,762

^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

^R Revised Data.

^{NA} Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and

revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1997-1999
(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				October	September	August
Alabama	19,324	24,189	9,614	556	1,860	5,683
Alaska	24,157	23,157	27,829	2,618	2,203	2,276
Arizona	44,177	32,221	22,233	6,390	4,690	6,690
Arkansas	35,880	40,088	24,136	1,580	3,096	7,963
California	153,560	233,287	329,250	14,528	9,478	12,228
Colorado	13,110	8,663	4,701	476	244	2,588
Connecticut	11,369	10,587	14,762	1,318	1,657	2,045
Delaware	19,007	9,071	14,711	1,349	1,566	3,300
District of Columbia	0	0	0	0	0	0
Florida	269,783	245,266	261,134	32,277	34,297	34,453
Georgia	19,873	21,775	7,170	691	1,928	6,506
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	37,456	53,403	35,683	1,546	1,705	3,824
Indiana	7,133	8,687	4,313	139	307	1,222
Iowa	4,902	5,656	3,664	317	449	722
Kansas	34,536	33,120	21,353	1,141	1,972	8,135
Kentucky	5,277	5,473	1,847	188	462	1,157
Louisiana	284,115	279,173	246,122	21,198	32,192	42,861
Maine	0	0	0	0	0	0
Maryland	15,732	11,616	10,434	1,346	1,107	2,845
Massachusetts	8,313	16,925	45,903	366	833	702
Michigan	44,869	41,709	27,123	3,869	3,700	4,642
Minnesota	5,715	7,350	5,848	98	192	807
Mississippi	86,738	68,683	64,451	6,711	7,503	14,292
Missouri	15,740	14,999	6,815	446	983	4,607
Montana	265	452	370	7	8	28
Nebraska	4,534	4,904	2,545	138	242	767
Nevada	54,391	50,927	46,327	5,611	6,435	6,682
New Hampshire	415	124	504	0	161	98
New Jersey	30,428	29,400	27,642	1,277	3,182	6,207
New Mexico	30,394	33,912	29,153	3,019	3,360	4,604
New York	160,985	189,320	190,891	11,945	14,068	19,803
North Carolina	9,369	12,354	4,483	93	556	3,197
North Dakota	0	0	1	0	0	0
Ohio	10,880	7,143	3,119	354	561	1,599
Oklahoma	152,874	150,029	109,183	10,822	13,971	26,954
Oregon	17,918	21,685	7,689	4,549	3,112	2,018
Pennsylvania	9,655	6,435	6,794	452	565	1,898
Rhode Island	0	15,589	22,070	0	0	0
South Carolina	4,986	5,754	2,583	17	165	1,857
South Dakota	2,404	2,487	1,558	69	79	427
Tennessee	3,393	6,213	1,636	0	174	1,218
Texas	1,080,507	1,108,997	914,593	97,302	117,454	180,640
Utah	4,807	5,288	3,729	969	428	592
Vermont	243	180	29	1	90	133
Virginia	21,384	19,005	10,368	650	1,698	3,367
Washington	5,963	10,975	2,211	3,026	1,273	436
West Virginia	306	336	206	46	23	17
Wisconsin	12,809	15,030	14,908	475	862	1,783
Wyoming	142	261	65	8	7	5
Total	2,779,820	2,891,900	2,591,750	239,976	280,898	433,878

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1997-1999
(Million Cubic Feet) — Continued

State	1999					
	July	June	May	April	March	February
Alabama	4,717	1,937	1,289	1,247	925	550
Alaska	2,551	2,189	2,290	2,282	2,499	2,519
Arizona	6,138	5,287	4,279	4,483	2,013	1,783
Arkansas	7,104	5,602	3,982	2,579	2,034	1,376
California	14,988	12,409	11,714	18,722	19,915	19,517
Colorado	2,315	1,817	1,987	1,125	1,141	981
Connecticut	3,003	1,798	1,311	84	123	1
Delaware	3,804	2,531	2,052	673	1,687	912
District of Columbia	0	0	0	0	0	0
Florida	33,921	29,566	29,547	28,221	18,961	13,119
Georgia	4,351	1,722	1,374	3,046	220	20
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	10,896	4,828	2,672	5,295	2,863	1,357
Indiana	2,646	1,174	245	403	332	147
Iowa	1,616	646	278	348	189	193
Kansas	8,527	3,543	2,800	3,740	2,451	1,042
Kentucky	1,889	500	214	196	142	90
Louisiana	38,149	34,541	29,398	25,149	21,653	17,481
Maine	0	0	0	0	0	0
Maryland	5,877	1,826	478	1,382	289	138
Massachusetts	1,672	1,820	1,572	763	412	51
Michigan	7,611	5,206	5,210	4,041	3,881	3,061
Minnesota	1,913	728	657	438	437	151
Mississippi	14,102	9,827	9,505	10,077	4,296	4,678
Missouri	4,940	1,710	496	1,436	279	310
Montana	112	32	6	9	4	5
Nebraska	1,895	745	201	344	118	44
Nevada	6,824	5,834	5,642	4,813	4,274	3,699
New Hampshire	67	24	16	0	16	0
New Jersey	11,544	3,439	2,070	658	686	343
New Mexico	3,916	2,706	2,011	3,104	2,789	2,322
New York	26,219	22,476	23,122	14,099	12,815	8,397
North Carolina	3,807	1,102	131	421	25	3
North Dakota	0	0	0	0	0	0
Ohio	3,367	1,488	737	1,158	971	333
Oklahoma	24,982	18,440	13,921	13,186	12,492	7,519
Oregon	1,575	876	2,032	1,069	219	936
Pennsylvania	3,241	2,071	465	284	315	105
Rhode Island	0	0	0	0	0	0
South Carolina	2,291	389	76	109	48	21
South Dakota	646	213	215	279	232	120
Tennessee	1,208	594	58	141	0	0
Texas	152,748	127,509	104,215	97,047	81,573	55,651
Utah	654	598	166	341	392	337
Vermont	0	2	1	2	6	2
Virginia	4,066	1,885	2,229	1,812	2,093	1,918
Washington	52	39	560	503	6	40
West Virginia	25	32	48	29	35	24
Wisconsin	4,044	1,895	1,432	553	568	648
Wyoming	8	68	6	4	13	14
Total	436,024	323,665	272,705	255,694	206,430	151,958

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1997-1999
(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	561	25,546	789	568	973	4,213
Alaska	2,733	28,784	2,957	2,669	2,190	2,402
Arizona	2,424	38,674	3,738	2,716	4,777	6,200
Arkansas	564	40,576	367	122	1,753	6,764
California	20,060	271,154	17,740	20,126	25,310	31,816
Colorado	438	10,627	918	1,046	684	1,378
Connecticut	29	10,719	123	9	209	1,605
Delaware	1,131	11,135	911	1,152	985	1,319
District of Columbia	0	0	0	0	0	0
Florida	15,422	281,346	17,667	18,413	28,024	27,465
Georgia	16	22,371	259	337	741	3,350
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	2,470	56,337	1,469	1,465	1,426	6,084
Indiana	517	9,096	237	172	389	957
Iowa	145	5,947	144	147	177	1,099
Kansas	1,184	36,896	1,679	2,097	1,602	6,109
Kentucky	438	5,760	136	151	206	978
Louisiana	21,493	318,395	18,345	20,877	24,381	36,591
Maine	0	0	0	0	0	0
Maryland	444	12,303	499	188	232	2,565
Massachusetts	122	18,427	725	777	918	1,127
Michigan	3,649	48,321	3,449	3,163	3,934	5,415
Minnesota	294	7,738	120	268	504	1,538
Mississippi	5,748	76,362	4,126	3,553	4,004	9,141
Missouri	533	16,035	515	521	228	3,067
Montana	53	522	36	33	48	69
Nebraska	40	5,044	106	35	154	955
Nevada	4,578	60,937	5,362	4,649	5,732	6,460
New Hampshire	32	149	0	25	0	0
New Jersey	1,022	30,996	792	804	376	3,446
New Mexico	2,563	39,034	2,876	2,246	2,708	3,782
New York	8,041	208,348	10,911	8,116	15,872	20,464
North Carolina	34	12,418	36	29	136	2,132
North Dakota	0	0	0	0	0	0
Ohio	312	7,663	351	170	272	1,333
Oklahoma	10,588	174,577	13,066	11,482	11,983	21,106
Oregon	1,532	28,883	3,009	4,188	3,701	4,014
Pennsylvania	261	6,890	357	98	220	561
Rhode Island	0	15,589	0	0	0	0
South Carolina	14	5,893	42	97	72	919
South Dakota	125	2,865	189	190	61	366
Tennessee	0	6,213	0	0	190	1,860
Texas	66,368	1,242,574	71,865	61,712	95,036	143,064
Utah	331	5,945	493	165	648	1,206
Vermont	5	188	4	3	7	11
Virginia	1,666	20,386	757	625	1,435	3,323
Washington	28	13,352	635	1,742	3,318	2,749
West Virginia	27	417	25	56	52	20
Wisconsin	550	16,348	730	589	486	2,044
Wyoming	9	271	5	6	13	9
Total	178,592	3,258,054	188,557	177,596	246,171	381,075

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1997-1999
(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	5,129	5,071	4,763	2,843	296	382
Alaska	2,038	2,163	2,102	2,420	2,274	2,391
Arizona	8,185	6,791	1,986	674	1,127	718
Arkansas	8,176	7,022	6,618	5,431	2,262	1,507
California	34,624	26,020	15,338	13,746	18,053	23,365
Colorado	1,419	1,763	914	690	581	412
Connecticut	2,672	1,582	1,708	1,385	157	23
Delaware	1,672	1,648	1,196	900	548	475
District of Columbia	0	0	0	0	0	0
Florida	29,246	31,965	33,183	26,818	15,852	18,011
Georgia	5,027	5,457	4,959	1,891	41	149
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	7,669	7,640	7,325	7,006	4,790	3,985
Indiana	1,695	1,911	1,732	1,102	231	427
Iowa	1,049	933	749	674	288	237
Kansas	7,062	7,713	5,133	3,088	575	891
Kentucky	1,060	649	950	1,017	107	282
Louisiana	44,636	43,677	38,806	31,804	18,072	16,190
Maine	0	0	0	0	0	0
Maryland	3,146	2,186	1,396	932	373	371
Massachusetts	1,965	1,404	2,164	2,661	1,575	1,561
Michigan	5,520	4,553	5,074	4,196	3,582	3,735
Minnesota	1,461	1,389	979	792	264	202
Mississippi	11,125	10,887	10,629	8,715	4,398	3,920
Missouri	3,997	3,750	2,425	947	208	160
Montana	83	80	26	89	15	39
Nebraska	1,161	1,022	702	621	173	58
Nevada	8,818	8,189	4,036	3,932	3,926	2,925
New Hampshire	26	37	35	0	0	0
New Jersey	6,216	7,105	4,303	3,925	1,248	1,835
New Mexico	4,850	5,283	4,019	3,015	3,446	3,091
New York	34,201	29,277	24,080	18,922	9,089	10,407
North Carolina	3,116	2,041	3,788	1,026	12	91
North Dakota	0	0	0	0	0	0
Ohio	1,426	1,307	1,103	1,005	179	307
Oklahoma	26,807	26,740	20,703	13,832	7,905	9,348
Oregon	3,781	3,008	835	176	2,265	1,334
Pennsylvania	455	1,411	2,017	622	260	406
Rhode Island	2,251	2,238	1,453	1,943	1,606	1,888
South Carolina	1,237	1,239	1,413	687	37	105
South Dakota	608	627	315	366	33	42
Tennessee	1,123	1,407	1,202	432	0	0
Texas	161,408	174,322	153,383	115,390	82,922	80,353
Utah	1,323	1,126	160	157	153	177
Vermont	8	15	7	12	6	3
Virginia	3,645	2,969	2,253	2,157	698	1,196
Washington	3,470	621	33	14	152	121
West Virginia	34	53	46	30	22	29
Wisconsin	2,338	3,059	2,554	2,279	394	1,106
Wyoming	1	5	10	6	8	3
Total	456,960	449,354	378,607	290,368	190,201	194,258

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia.

See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				October	September	August
Alabama	245,837	253,352	236,895	21,729	21,280	25,441
Alaska	118,588	119,023	121,431	12,838	9,330	8,852
Arizona	118,365	110,867	93,733	11,375	9,666	11,612
Arkansas	NA	217,248	200,840	NA	NA	22,850
California	1,621,726	1,583,840	1,513,702	159,544	149,147	150,340
Colorado	NA	218,529	206,037	NA	NA	NA
Connecticut	103,764	99,350	106,885	8,109	6,661	7,655
Delaware	49,007	33,210	38,920	3,810	3,712	5,298
District of Columbia	NA	24,774	26,251	1,379	1,187	1,155
Florida	NA	394,733	410,049	47,219	48,208	NA
Georgia	NA	288,248	276,947	NA	NA	NA
Hawaii	2,282	1,904	1,980	228	224	222
Idaho	51,738	49,913	48,939	4,484	3,630	2,952
Illinois	767,398	735,070	818,657	64,641	43,467	40,702
Indiana	NA	409,592	428,077	NA	NA	R28,248
Iowa	182,066	177,388	189,324	14,629	11,394	10,625
Kansas	NA	215,279	200,755	10,070	12,240	21,287
Kentucky	152,222	146,653	154,636	12,576	10,008	10,514
Louisiana	1,143,808	1,106,729	1,144,409	108,034	111,788	124,569
Maine	4,523	4,427	4,823	452	297	278
Maryland	NA	141,900	154,968	9,986	9,039	10,586
Massachusetts	NA	275,470	309,261	NA	NA	NA
Michigan	685,842	649,852	743,288	53,279	36,485	34,329
Minnesota	251,013	234,111	258,402	20,683	13,799	15,450
Mississippi	NA	172,716	170,904	15,635	15,656	22,332
Missouri	NA	208,360	215,531	12,423	10,842	13,798
Montana	43,103	41,492	41,452	3,731	2,376	2,079
Nebraska	94,790	107,022	103,757	7,025	6,566	6,605
Nevada	123,533	115,896	107,598	11,055	11,456	12,157
New Hampshire	NA	15,336	16,589	1,266	1,014	945
New Jersey	NA	468,484	492,879	NA	NA	NA
New Mexico	NA	100,485	95,357	NA	NA	NA
New York	NA	946,020	994,308	NA	NA	NA
North Carolina	177,587	171,983	164,594	10,697	12,148	15,798
North Dakota	31,888	32,286	34,409	2,498	1,933	R1,588
Ohio	NA	623,745	686,438	53,765	37,153	NA
Oklahoma	354,557	412,083	373,137	25,948	27,979	39,857
Oregon	192,231	151,677	124,739	17,034	13,426	41,786
Pennsylvania	507,997	465,671	509,562	39,821	29,935	29,960
Rhode Island	51,720	73,011	66,079	3,664	3,433	3,229
South Carolina	126,834	127,431	121,398	11,009	9,793	11,327
South Dakota	23,386	22,834	25,477	1,663	986	1,355
Tennessee	NA	214,334	204,067	23,709	19,216	18,073
Texas	NA	3,028,685	2,984,351	220,917	317,700	341,314
Utah	101,587	107,401	103,695	9,991	7,163	6,158
Vermont	6,480	6,158	6,341	529	413	443
Virginia	NA	189,982	182,627	13,152	NA	21,168
Washington	NA	205,221	165,695	NA	NA	NA
West Virginia	NA	84,667	93,190	6,813	5,341	R7,902
Wisconsin	294,683	275,477	307,622	26,755	17,578	17,388
Wyoming	NA	62,966	56,818	NA	NA	NA
Total	16,003,774	15,922,885	16,137,822	1,351,685	1,299,475	R1,429,461

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999					
	July	June	May	April	March	February
Alabama	24,155	20,890	20,655	24,458	29,873	26,353
Alaska	11,181	9,997	11,306	11,803	14,299	13,635
Arizona	11,036	10,750	11,297	13,342	11,117	13,076
Arkansas	20,392	19,737	18,551	20,551	23,164	21,707
California	^R 139,818	^R 130,695	^R 143,874	^R 165,282	174,845	^R 196,913
Colorado	NA	15,549	23,494	25,892	28,747	32,318
Connecticut	8,706	7,572	8,812	9,935	14,524	15,078
Delaware	5,945	4,459	4,687	4,066	6,212	5,203
District of Columbia	NA	1,339	1,936	3,245	4,658	4,857
Florida	49,047	44,453	45,008	45,358	37,177	28,845
Georgia	16,320	12,136	13,102	21,069	30,255	32,026
Hawaii	229	229	222	231	226	238
Idaho	3,303	3,694	4,982	6,275	7,004	7,448
Illinois	48,586	42,991	48,143	76,127	118,522	118,476
Indiana	^R 31,153	^R 31,658	NA	NA	NA	62,390
Iowa	12,156	10,629	13,448	19,774	25,814	26,556
Kansas	21,045	14,968	NA	21,489	26,377	25,841
Kentucky	10,479	9,588	10,796	14,490	23,847	22,029
Louisiana	121,702	118,339	117,757	110,878	111,845	99,953
Maine	251	305	338	435	676	578
Maryland	NA	9,584	NA	16,031	23,839	22,281
Massachusetts	NA	28,815	24,380	34,711	44,616	35,459
Michigan	39,894	42,217	53,208	75,392	111,770	107,071
Minnesota	14,400	14,565	17,138	24,393	36,595	41,060
Mississippi	22,609	18,524	^R 18,779	NA	^R 18,057	16,431
Missouri	15,376	12,071	13,690	21,758	30,564	NA
Montana	2,345	2,864	4,088	5,177	5,599	6,596
Nebraska	9,405	5,749	7,223	7,565	12,426	13,574
Nevada	12,209	11,047	12,008	12,142	12,810	13,191
New Hampshire	874	943	NA	1,909	2,539	2,590
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	9,598	8,431	8,750	NA	15,967	14,028
New York	NA	NA	NA	NA	NA	NA
North Carolina	15,799	13,087	13,814	18,212	28,528	21,862
North Dakota	1,666	1,818	2,600	3,371	4,608	5,967
Ohio	38,118	38,595	46,433	72,087	108,779	107,807
Oklahoma	37,937	32,876	30,438	36,355	37,996	36,967
Oregon	11,549	11,834	15,055	16,579	23,934	19,210
Pennsylvania	30,386	31,317	37,041	55,520	81,219	82,150
Rhode Island	4,001	4,031	4,942	5,782	6,963	7,279
South Carolina	11,252	9,776	10,716	14,194	17,226	14,069
South Dakota	1,652	1,257	1,683	2,779	3,307	3,646
Tennessee	17,386	16,639	NA	NA	28,046	28,478
Texas	291,236	289,088	NA	264,352	262,333	257,136
Utah	7,198	5,585	8,109	12,336	12,602	15,610
Vermont	295	327	492	756	1,017	1,023
Virginia	20,687	17,342	NA	22,821	29,716	28,564
Washington	NA	NA	NA	NA	NA	NA
West Virginia	5,735	NA	^R 6,188	NA	NA	11,819
Wisconsin	19,010	17,359	19,893	28,656	43,163	43,687
Wyoming	NA	4,069	4,924	5,792	6,234	NA
Total	^R1,365,905	^R1,287,254	^R1,373,075	^R1,614,557	^R1,978,293	^R1,951,709

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	31,003	298,102	24,023	20,725	20,081	21,745
Alaska	15,345	147,426	14,951	13,451	12,143	10,517
Arizona	15,094	134,871	14,397	9,456	10,331	10,952
Arkansas	28,207	254,142	20,624	16,270	16,098	21,593
California	^R 211,269	1,933,371	192,210	154,589	151,911	162,464
Colorado	37,728	271,849	31,624	21,684	14,392	11,864
Connecticut	16,712	120,955	12,389	9,140	7,053	6,782
Delaware	5,616	40,769	3,965	3,593	2,875	2,860
District of Columbia	5,400	30,115	3,043	2,293	1,337	1,172
Florida	32,810	460,082	32,489	32,777	41,312	41,332
Georgia	37,187	349,701	34,095	27,346	20,377	17,928
Hawaii	233	2,654	568	183	172	180
Idaho	7,967	62,018	6,712	5,357	3,949	3,407
Illinois	165,743	944,563	119,098	90,335	58,216	44,732
Indiana	80,565	513,375	58,178	45,538	35,466	30,493
Iowa	37,042	223,826	25,924	20,513	14,848	11,617
Kansas	NA	260,044	23,768	20,997	14,868	16,265
Kentucky	27,895	186,990	22,641	17,693	11,891	10,032
Louisiana	118,943	1,312,174	113,450	91,988	105,471	119,369
Maine	913	5,663	673	564	455	298
Maryland	26,844	176,323	19,719	14,642	10,097	10,384
Massachusetts	28,118	335,874	31,926	28,471	21,028	15,147
Michigan	132,196	813,457	91,646	71,928	49,532	35,851
Minnesota	52,931	305,174	40,732	30,299	20,231	14,566
Mississippi	21,785	201,209	15,567	12,925	12,317	17,247
Missouri	45,867	253,682	27,553	17,763	11,118	12,406
Montana	8,249	54,071	7,152	5,418	3,891	2,483
Nebraska	18,653	127,779	11,394	9,362	6,287	6,143
Nevada	15,458	142,970	15,265	11,777	11,255	10,223
New Hampshire	3,115	19,103	2,033	1,734	1,219	857
New Jersey	NA	579,099	63,273	47,341	32,959	31,628
New Mexico	NA	127,354	16,540	10,140	7,377	7,864
New York	NA	1,135,250	104,380	84,394	68,342	66,050
North Carolina	27,642	206,129	18,480	15,666	11,738	12,824
North Dakota	5,837	40,782	4,686	3,807	2,199	2,231
Ohio	121,148	794,255	96,990	73,088	50,339	36,314
Oklahoma	48,205	483,117	39,100	31,825	33,453	44,090
Oregon	21,825	192,094	21,441	18,938	15,667	14,484
Pennsylvania	90,648	587,218	68,314	53,193	35,593	27,995
Rhode Island	8,396	85,811	6,701	6,093	5,105	4,453
South Carolina	17,472	153,476	13,758	12,286	10,471	10,756
South Dakota	5,058	29,383	3,735	2,813	1,279	1,297
Tennessee	37,777	263,778	28,282	21,151	17,009	15,757
Texas	319,453	3,634,920	329,660	276,571	281,344	320,315
Utah	16,835	139,380	19,111	12,732	10,647	7,354
Vermont	1,184	7,726	895	673	453	403
Virginia	29,218	234,692	24,576	20,099	16,212	15,119
Washington	NA	254,067	26,180	22,554	14,778	19,336
West Virginia	^R 14,083	104,879	11,105	9,102	6,858	5,594
Wisconsin	61,193	355,650	46,138	33,976	22,684	17,828
Wyoming	7,649	77,656	8,105	6,575	5,451	4,274
Total	^R2,352,359	19,469,047	1,969,258	1,571,825	1,340,176	1,336,874

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	24,088	23,312	23,855	23,888	24,090	29,526
Alaska	10,964	10,575	10,469	11,161	12,167	13,377
Arizona	13,311	12,061	7,474	7,585	10,135	12,037
Arkansas	23,043	21,240	20,839	20,817	20,986	24,350
California	164,775	147,533	119,820	139,639	153,492	151,820
Colorado	12,964	14,250	12,170	20,231	26,502	33,135
Connecticut	8,162	7,334	7,271	7,919	10,822	13,202
Delaware	3,235	3,134	2,836	2,927	3,300	4,042
District of Columbia	1,170	1,239	1,345	1,718	3,023	4,066
Florida	42,655	45,868	47,429	41,714	31,879	35,102
Georgia	24,063	24,012	25,597	22,830	27,346	39,449
Hawaii	195	179	194	181	194	185
Idaho	3,205	3,431	3,877	4,188	5,686	6,586
Illinois	44,698	42,354	45,603	50,910	79,423	116,883
Indiana	28,161	28,657	29,491	32,226	40,505	58,880
Iowa	11,796	11,485	10,720	12,466	18,593	27,912
Kansas	20,877	23,257	18,672	17,273	18,921	28,659
Kentucky	10,020	9,768	10,185	11,514	14,054	21,935
Louisiana	128,563	124,823	112,456	108,478	99,262	103,524
Maine	281	253	308	337	449	620
Maryland	11,208	10,038	9,691	10,561	14,208	20,887
Massachusetts	17,943	18,061	21,382	22,902	31,899	39,212
Michigan	34,403	33,947	42,173	49,710	76,362	104,471
Minnesota	14,455	13,686	14,631	14,641	21,694	37,498
Mississippi	19,131	18,881	18,772	17,516	14,967	17,903
Missouri	13,815	13,074	12,721	13,657	21,818	33,809
Montana	2,365	2,428	2,771	3,114	4,718	5,973
Nebraska	8,961	11,770	7,207	8,128	10,921	14,906
Nevada	13,454	12,962	9,487	10,190	11,365	11,591
New Hampshire	909	871	966	1,203	1,760	2,274
New Jersey	33,055	33,448	32,035	42,313	48,704	69,468
New Mexico	8,963	9,340	7,220	7,831	10,404	13,171
New York	85,071	83,660	74,133	77,734	93,844	122,304
North Carolina	14,096	12,467	14,893	14,034	17,142	22,510
North Dakota	2,153	2,039	2,393	2,856	3,609	4,590
Ohio	35,683	37,322	38,303	45,219	67,547	98,475
Oklahoma	48,570	47,424	41,299	33,829	33,633	43,974
Oregon	14,451	13,385	11,439	11,272	16,113	17,757
Pennsylvania	27,864	28,259	31,648	34,134	50,761	72,485
Rhode Island	6,287	6,773	6,027	7,384	8,225	8,828
South Carolina	10,940	10,154	11,297	11,457	12,168	15,419
South Dakota	1,541	1,597	1,209	2,115	2,270	3,623
Tennessee	15,925	14,959	15,388	17,452	21,560	30,477
Texas	349,628	372,879	320,689	292,221	263,728	286,872
Utah	6,552	6,674	6,965	7,596	12,265	14,752
Vermont	301	325	347	409	716	918
Virginia	15,975	15,194	14,715	14,539	17,980	25,062
Washington	20,249	15,353	12,987	12,226	23,319	29,291
West Virginia	5,542	5,524	5,794	6,493	9,439	12,681
Wisconsin	17,482	15,973	18,607	19,431	27,909	44,228
Wyoming	4,335	4,658	5,017	6,471	6,187	7,819
Total	1,437,532	1,427,891	1,322,821	1,356,636	1,558,062	1,958,520

^R Revised Data.

NA Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See

Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

Table 20. Average City Gate Price, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				
				October	September	August	July	June
Alabama	2.95	3.18	3.87	3.45	3.61	3.62	3.33	3.53
Alaska	1.31	1.72	1.81	1.36	1.41	1.11	1.26	1.27
Arizona	2.66	2.61	3.24	3.30	3.66	3.52	3.26	3.16
Arkansas	NA	2.88	3.20	NA	NA	2.98	3.04	NA
California	2.52	2.32	2.98	3.35	3.00	2.80	2.51	2.57
Colorado	NA	2.38	2.88	NA	NA	NA	NA	2.44
Connecticut	4.72	5.06	5.27	4.58	5.85	4.52	5.39	4.33
Delaware	3.54	2.85	3.54	2.73	4.01	3.53	4.43	5.10
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.31	3.38	3.94	3.74	3.60	3.53	3.22	3.27
Georgia	NA	3.41	4.06	NA	NA	NA	3.42	4.10
Hawaii	5.27	5.36	6.47	6.48	6.23	5.59	5.61	5.45
Idaho	2.06	1.97	2.20	2.94	3.27	2.74	2.72	1.50
Illinois	2.92	2.79	3.26	3.41	3.87	3.73	3.23	3.17
Indiana	NA	2.44	3.04	NA	NA	^R 2.50	^R 2.02	^R 2.05
Iowa	3.07	3.51	3.87	3.49	3.71	3.97	3.54	4.26
Kansas	NA	2.96	3.36	3.41	3.91	4.88	2.52	3.08
Kentucky	3.17	3.27	3.71	3.63	3.46	2.85	3.06	2.89
Louisiana	2.38	2.33	2.98	3.16	3.34	2.46	2.24	2.27
Maine	NA	3.47	4.22	3.37	2.69	3.18	5.39	3.67
Maryland	NA	4.03	4.07	4.80	5.38	6.24	NA	5.86
Massachusetts	NA	4.23	3.97	NA	NA	NA	NA	NA
Michigan	2.81	2.78	2.92	2.86	2.83	2.79	2.83	2.63
Minnesota	2.87	2.95	3.49	2.85	3.72	3.52	3.30	3.23
Mississippi	NA	2.98	3.34	3.29	3.30	3.05	2.84	2.49
Missouri	3.36	3.48	3.86	4.23	5.38	5.25	5.14	4.90
Montana	2.46	2.41	3.41	2.65	2.30	2.12	2.08	2.20
Nebraska	3.00	3.03	3.89	3.14	3.28	2.33	3.25	3.24
Nevada	2.40	3.18	3.50	3.20	3.94	5.42	0.83	3.60
New Hampshire	3.63	3.76	4.18	3.40	4.12	3.96	4.77	4.06
New Jersey	NA	3.66	4.22	NA	NA	NA	NA	NA
New Mexico	NA	2.05	2.53	NA	NA	NA	2.06	2.13
New York	NA	2.59	3.20	NA	NA	NA	NA	NA
North Carolina	3.23	3.59	3.99	3.74	3.90	3.52	3.21	3.34
North Dakota	2.91	2.74	3.34	3.38	3.41	3.35	2.90	2.83
Ohio	NA	4.84	5.43	4.90	5.21	NA	5.07	5.81
Oklahoma	2.72	2.56	3.09	2.64	2.84	1.87	2.19	2.47
Oregon	2.87	2.80	2.60	3.10	3.64	4.05	3.74	3.28
Pennsylvania	3.66	4.31	4.12	4.09	4.98	6.70	5.13	4.35
Rhode Island	3.73	4.19	4.57	4.79	4.95	4.88	5.41	4.73
South Carolina	3.41	3.42	3.78	3.73	4.14	3.85	3.63	3.80
South Dakota	3.42	3.40	3.68	3.37	3.50	4.02	4.03	3.72
Tennessee	NA	3.49	3.48	3.71	3.53	4.18	3.25	2.75
Texas	2.76	2.60	3.58	3.17	2.98	2.98	2.77	2.78
Utah	2.80	3.17	2.59	2.75	3.23	2.93	4.04	2.62
Vermont	2.97	2.58	2.21	3.42	2.68	2.70	2.63	3.12
Virginia	NA	3.90	4.23	3.73	7.51	5.60	7.13	5.27
Washington	NA	2.38	2.63	NA	NA	NA	NA	NA
West Virginia	NA	3.05	3.20	3.46	1.33	NA	3.16	^R 3.89
Wisconsin	3.01	3.40	3.72	3.34	4.26	4.14	3.84	4.12
Wyoming	3.19	2.49	3.08	3.28	3.99	3.81	3.51	2.53
Total	3.03	3.07	3.56	3.50	3.50	^R 3.37	^R 3.11	^R 3.18

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1999					1998		
	May	April	March	February	January	Total	December	November
Alabama	2.86	2.70	2.65	2.79	2.62	3.17	3.16	3.17
Alaska	1.23	1.32	1.33	1.34	1.32	1.72	1.73	1.74
Arizona	3.03	2.39	2.18	2.19	2.17	2.55	2.31	2.54
Arkansas	NA	2.71	2.58	3.40	2.69	2.94	3.13	3.03
California	2.71	2.17	2.07	2.25	2.23	2.38	2.75	2.49
Colorado	2.36	1.14	1.84	2.07	2.25	2.40	2.74	2.18
Connecticut	5.19	4.87	4.57	4.74	4.44	5.06	5.51	4.54
Delaware	3.91	3.12	3.33	3.68	3.63	3.02	4.10	3.83
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.27	2.99	3.11	3.19	3.33	3.42	3.50	3.76
Georgia	NA	3.11	3.33	3.45	4.41	3.51	4.34	3.24
Hawaii	4.72	4.68	4.53	4.47	5.07	5.33	5.17	5.14
Idaho	1.69	1.94	1.82	1.92	1.76	1.95	1.86	1.99
Illinois	3.62	2.63	2.51	2.59	2.49	2.77	2.75	2.65
Indiana	NA	NA	NA	2.26	2.11	2.45	2.43	2.57
Iowa	3.63	3.03	2.77	3.02	2.63	3.34	2.79	3.05
Kansas	2.94	2.54	NA	NA	NA	2.96	2.79	3.19
Kentucky	3.63	3.72	2.79	3.10	3.21	3.23	3.08	3.19
Louisiana	2.41	2.14	2.16	2.19	2.18	2.33	2.48	2.20
Maine	NA	5.48	3.05	2.84	3.27	3.43	3.82	2.66
Maryland	NA	NA	NA	NA	2.87	4.12	5.70	3.38
Massachusetts	5.89	NA	NA	NA	NA	4.01	3.15	3.58
Michigan	2.83	2.75	2.79	3.02	2.79	2.80	3.05	2.86
Minnesota	2.87	2.49	2.70	2.84	2.60	2.98	3.04	3.04
Mississippi	2.66	NA	2.61	2.71	NA	3.00	3.11	3.06
Missouri	4.56	3.43	2.75	2.89	2.49	3.33	2.77	3.12
Montana	1.37	2.39	2.98	2.70	2.76	2.43	2.44	2.60
Nebraska	3.45	2.94	2.90	3.11	2.90	3.02	3.10	2.84
Nevada	3.07	2.13	2.31	2.54	2.42	3.02	2.65	2.60
New Hampshire	3.32	3.59	3.24	3.56	3.73	3.75	3.88	3.52
New Jersey	NA	NA	1.20	NA	NA	3.71	4.84	4.10
New Mexico	2.06	1.81	1.98	2.08	2.13	2.08	2.18	2.17
New York	NA	NA	NA	NA	NA	2.65	3.04	2.84
North Carolina	3.52	3.25	2.73	3.00	3.11	3.49	3.09	3.16
North Dakota	2.97	2.57	2.58	2.84	2.85	2.81	3.01	3.10
Ohio	6.71	7.73	4.43	4.62	4.22	4.70	4.32	4.22
Oklahoma	2.23	2.35	2.36	5.21	2.41	2.55	2.54	2.52
Oregon	2.84	2.66	2.59	2.68	2.43	2.73	2.50	2.61
Pennsylvania	4.28	3.77	2.95	3.42	3.10	4.12	3.47	3.69
Rhode Island	4.46	4.09	3.06	3.20	3.32	3.78	1.26	4.05
South Carolina	3.85	3.43	2.86	3.09	3.14	3.39	3.24	3.30
South Dakota	4.21	3.37	3.25	3.37	3.18	3.24	2.69	3.07
Tennessee	2.81	NA	2.79	2.76	2.86	3.47	3.28	3.57
Texas	2.86	2.45	2.38	2.61	2.83	2.63	2.85	2.59
Utah	2.07	2.31	2.76	3.11	2.86	3.22	3.58	3.07
Vermont	3.34	3.07	2.92	3.01	2.85	2.58	2.52	2.67
Virginia	NA	3.70	3.35	2.97	3.31	3.74	3.28	3.31
Washington	NA	NA	NA	NA	NA	2.34	2.38	1.79
West Virginia	^R 2.64	NA	NA	^R 3.21	6.98	3.17	3.80	3.55
Wisconsin	3.62	2.83	2.64	2.77	2.47	3.29	2.84	3.10
Wyoming	3.01	3.23	2.85	3.49	3.07	2.73	4.14	3.22
Total	3.25	2.91	2.67	^R2.94	2.84	3.07	3.10	2.99

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	October	September	August	July	June	May	April	March
Alabama	3.50	3.24	3.50	3.68	3.56	3.38	3.11	2.97
Alaska	1.73	1.71	1.71	1.64	1.67	1.68	1.71	1.73
Arizona	2.62	2.77	2.85	2.85	2.60	2.93	2.81	2.58
Arkansas	2.93	1.88	2.38	3.23	2.31	3.00	2.96	3.13
California	2.22	1.98	2.46	2.39	2.34	2.49	2.33	2.38
Colorado	2.24	0.63	2.26	2.09	2.43	2.46	2.64	2.45
Connecticut	4.31	4.69	4.87	5.14	4.74	5.08	5.89	4.87
Delaware	3.75	3.90	2.79	2.93	4.35	1.79	2.63	2.74
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.51	3.13	3.22	3.31	2.82	3.20	3.93	3.25
Georgia	3.08	3.37	3.44	3.57	3.01	3.55	3.63	3.85
Hawaii	4.95	5.12	5.06	4.77	4.86	5.21	5.21	6.25
Idaho	1.95	2.38	2.14	2.55	2.18	1.94	1.96	1.81
Illinois	2.43	2.24	2.49	3.16	2.16	3.64	2.90	2.86
Indiana	2.47	2.58	2.38	2.77	1.51	2.80	2.43	2.37
Iowa	4.98	4.00	4.03	4.05	1.99	4.12	3.33	3.42
Kansas	2.94	2.67	2.92	3.86	3.42	3.17	2.87	2.86
Kentucky	2.94	3.58	2.85	3.57	3.33	3.33	3.99	3.23
Louisiana	2.13	2.01	2.05	2.45	2.20	2.36	2.30	2.53
Maine	3.37	2.69	3.21	5.39	3.67	2.53	3.16	4.26
Maryland	4.15	13.58	5.83	7.57	5.89	5.54	4.37	3.39
Massachusetts	4.46	6.11	5.75	7.56	6.87	5.44	3.98	3.64
Michigan	2.61	2.69	2.79	2.92	2.50	2.69	2.78	2.97
Minnesota	2.74	2.78	3.06	3.31	2.97	3.28	2.95	3.00
Mississippi	2.91	2.65	2.67	3.07	2.86	2.88	3.18	3.07
Missouri	4.06	4.50	4.61	5.12	4.87	4.47	3.72	2.97
Montana	2.32	2.22	1.88	2.51	2.08	2.23	2.31	2.54
Nebraska	3.03	2.90	3.01	3.65	2.98	3.73	3.20	2.98
Nevada	2.48	3.79	4.43	3.75	3.37	3.25	3.00	3.29
New Hampshire	3.22	3.34	3.80	4.63	3.87	3.36	3.35	4.22
New Jersey	4.08	5.83	3.80	3.89	3.58	3.03	3.54	3.53
New Mexico	1.75	1.64	1.86	1.94	1.76	2.04	2.19	2.20
New York	2.83	2.56	2.44	2.85	2.84	3.11	3.27	2.01
North Carolina	3.46	3.20	3.43	3.95	3.83	3.66	3.91	3.49
North Dakota	3.05	2.11	2.49	2.57	2.34	2.74	2.86	2.91
Ohio	6.02	5.54	4.70	5.16	4.80	5.08	4.89	4.87
Oklahoma	2.16	2.73	2.61	2.38	2.51	2.46	2.36	2.38
Oregon	2.72	2.93	3.58	3.87	3.23	2.78	2.78	2.89
Pennsylvania	3.73	4.73	5.10	6.23	4.94	3.97	4.06	5.23
Rhode Island	4.07	4.30	4.66	4.82	4.69	4.68	4.26	4.05
South Carolina	3.40	3.35	3.46	3.96	3.65	3.81	3.58	3.29
South Dakota	2.93	3.91	4.68	4.27	2.90	4.42	4.37	2.60
Tennessee	3.06	2.42	2.77	3.12	3.10	3.40	6.62	2.61
Texas	2.37	2.09	2.35	2.62	2.36	2.65	2.68	2.65
Utah	2.94	3.37	3.48	2.64	2.73	2.62	2.89	3.23
Vermont	1.99	2.26	2.34	2.60	2.69	2.82	2.74	2.92
Virginia	3.80	4.86	5.14	4.96	4.32	4.37	3.92	3.25
Washington	2.46	2.37	2.20	2.16	2.60	2.37	2.60	2.28
West Virginia	3.22	2.58	2.43	2.76	2.91	3.43	3.60	2.69
Wisconsin	3.18	3.76	4.23	4.07	3.68	3.89	3.64	3.33
Wyoming	2.97	2.48	2.86	2.74	2.51	1.29	1.28	3.40
Total	2.99	2.78	3.01	3.31	2.98	3.12	3.23	3.06

^R Revised Data.

NA Not Available.

— Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the

point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				
				October	September	August	July	June
Alabama	8.32	8.00	8.62	10.27	11.61	11.91	11.38	10.98
Alaska	3.69	3.69	3.81	3.70	3.84	4.27	4.31	4.10
Arizona	9.19	8.44	7.76	11.84	12.63	12.84	12.26	11.03
Arkansas	NA	6.86	6.78	NA	NA	10.63	9.65	9.45
California	6.60	6.93	6.67	7.51	6.88	7.21	7.04	6.82
Colorado	NA	5.26	4.78	NA	NA	NA	NA	6.13
Connecticut	10.36	10.55	10.37	11.17	10.95	11.45	11.73	11.86
Delaware	8.68	8.89	8.38	10.69	12.48	12.52	10.58	10.97
District of Columbia	NA	8.89	9.28	11.34	12.39	8.28	NA	8.24
Florida	11.93	11.20	11.81	14.38	14.65	14.31	13.77	13.34
Georgia	NA	7.95	8.08	NA	NA	NA	11.45	10.16
Hawaii	18.81	19.27	21.97	20.03	19.71	19.38	18.71	18.56
Idaho	5.36	5.36	5.12	5.92	6.58	6.55	6.21	5.83
Illinois	5.47	5.69	6.11	6.91	8.49	^R 9.46	8.85	8.12
Indiana	NA	6.81	6.62	NA	NA	^R 7.79	^R 7.61	6.76
Iowa	6.07	6.19	6.17	7.56	9.24	13.37	9.40	11.36
Kansas	NA	6.08	6.52	7.58	9.02	8.66	8.77	7.74
Kentucky	5.66	6.23	6.42	7.00	7.53	8.16	8.17	7.75
Louisiana	6.69	6.58	7.24	9.10	9.59	9.37	8.55	8.03
Maine	7.63	8.27	8.52	7.61	8.26	9.13	9.11	8.33
Maryland	NA	8.37	8.49	11.79	12.70	12.97	NA	11.87
Massachusetts	NA	9.36	9.31	NA	NA	NA	NA	NA
Michigan	5.17	5.26	5.25	5.59	7.15	7.75	7.68	6.46
Minnesota	5.53	5.57	5.83	6.25	7.47	7.91	8.04	7.19
Mississippi	NA	6.15	6.42	7.62	6.99	7.77	7.22	7.12
Missouri	6.22	6.62	6.62	7.73	9.35	10.48	9.85	6.09
Montana	5.15	5.30	4.95	5.57	6.27	7.46	6.58	5.99
Nebraska	4.97	5.23	5.61	6.52	7.73	8.04	7.13	6.76
Nevada	7.28	7.18	6.24	8.24	8.85	9.03	8.86	8.15
New Hampshire	7.45	8.12	8.44	7.25	8.75	9.29	8.68	7.88
New Jersey	NA	7.09	8.01	NA	NA	NA	NA	NA
New Mexico	NA	5.95	6.83	NA	NA	NA	9.96	10.62
New York	NA	9.65	9.76	NA	NA	NA	NA	NA
North Carolina	8.16	8.62	9.30	10.76	11.70	13.19	11.74	12.98
North Dakota	5.15	5.20	4.78	6.10	7.31	7.90	7.54	7.23
Ohio	NA	6.53	6.91	6.76	8.04	NA	8.41	7.89
Oklahoma	5.64	5.97	6.41	8.21	9.13	9.49	8.80	3.77
Oregon	7.19	6.81	6.24	7.67	8.64	8.91	10.50	7.75
Pennsylvania	8.33	8.61	8.49	9.20	10.69	11.99	11.40	10.69
Rhode Island	9.47	9.56	9.71	10.45	12.23	12.29	11.52	11.36
South Carolina	8.55	8.18	8.60	9.37	10.20	10.46	10.20	9.89
South Dakota	5.73	5.74	5.66	7.09	8.26	9.81	8.69	8.46
Tennessee	NA	6.70	7.01	8.43	8.06	9.25	8.86	9.32
Texas	6.01	6.28	6.47	8.43	9.00	9.13	7.40	7.90
Utah	5.27	5.54	5.01	5.11	5.44	6.25	5.54	5.78
Vermont	7.01	6.55	6.44	7.63	9.33	9.38	9.33	8.42
Virginia	NA	8.72	8.72	12.04	14.20	^R 14.40	13.85	13.36
Washington	NA	5.86	5.61	NA	NA	NA	NA	NA
West Virginia	NA	7.30	7.05	8.09	9.61	NA	10.66	NA
Wisconsin	6.11	6.17	6.35	5.47	7.21	7.45	7.14	6.70
Wyoming	5.27	5.24	4.27	5.45	6.09	6.63	6.74	5.94
Total	6.58	6.94	7.04	7.54	8.38	^R 8.83	^R 8.47	7.91

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1999					1998		
	May	April	March	February	January	Total	December	November
Alabama	9.83	7.83	7.03	8.29	7.13	8.21	9.06	10.01
Alaska	3.81	3.65	3.59	3.53	3.53	3.67	3.51	3.70
Arizona	9.57	8.75	8.57	8.17	8.03	8.50	8.34	9.85
Arkansas	8.25	6.70	6.16	6.94	5.66	6.85	6.82	6.79
California	6.22	5.98	6.22	6.54	6.82	6.92	6.88	6.79
Colorado	5.12	5.00	4.86	4.75	4.60	5.22	4.94	5.28
Connecticut	11.30	10.29	10.08	10.18	9.71	10.60	10.97	10.52
Delaware	9.32	8.39	8.05	8.10	8.05	8.90	8.58	9.44
District of Columbia	8.95	7.96	7.76	8.25	8.61	8.91	8.82	9.25
Florida	12.64	11.46	10.58	11.16	10.29	11.29	11.35	12.43
Georgia	NA	4.12	2.44	2.38	2.01	6.78	2.42	3.45
Hawaii	18.60	18.04	18.15	18.34	18.79	19.25	18.86	19.39
Idaho	5.46	5.31	5.10	5.13	5.03	5.33	5.15	5.42
Illinois	7.66	5.27	4.63	4.62	4.46	5.47	4.77	5.02
Indiana	NA	NA	NA	NA	5.36	6.56	5.75	5.81
Iowa	7.77	6.00	5.26	5.07	4.79	5.96	4.96	5.75
Kansas	6.65	5.60	NA	NA	NA	6.00	5.52	5.88
Kentucky	6.75	5.46	4.82	5.27	5.24	6.03	5.35	5.76
Louisiana	7.58	6.19	5.98	5.86	5.42	6.68	6.89	7.81
Maine	8.66	7.85	7.38	7.34	7.00	8.09	7.64	7.45
Maryland	NA	7.98	NA	NA	7.37	8.29	8.12	7.92
Massachusetts	NA	NA	NA	9.19	9.39	9.42	9.67	9.66
Michigan	5.72	5.10	4.78	4.76	4.68	5.17	4.87	4.85
Minnesota	6.26	5.21	5.08	5.06	4.96	5.48	5.22	5.31
Mississippi	6.92	NA	5.20	5.94	4.84	6.08	6.44	4.48
Missouri	7.08	6.06	5.41	5.70	5.71	6.57	6.20	6.63
Montana	4.66	4.95	4.94	4.93	4.75	5.25	4.99	5.22
Nebraska	5.39	4.70	4.47	4.38	4.37	5.13	4.60	4.74
Nevada	7.39	7.00	6.94	6.75	6.70	7.11	6.74	7.14
New Hampshire	6.38	5.67	8.23	7.60	7.44	8.12	7.98	8.26
New Jersey	NA	NA	NA	NA	NA	7.33	8.16	8.24
New Mexico	9.45	4.97	3.09	4.25	2.63	5.22	3.23	4.20
New York	NA	NA	NA	NA	NA	9.59	9.30	9.50
North Carolina	8.76	7.92	6.20	8.40	7.56	8.69	9.45	8.31
North Dakota	5.19	4.71	4.76	4.67	4.62	5.16	5.01	5.05
Ohio	6.83	5.83	5.63	5.69	5.87	6.43	6.08	6.13
Oklahoma	6.95	5.59	5.33	5.48	4.45	5.93	5.51	6.15
Oregon	7.26	7.04	6.91	6.80	6.68	6.81	6.75	6.91
Pennsylvania	9.19	7.68	7.73	7.78	7.80	8.45	7.78	8.07
Rhode Island	9.79	9.48	8.88	8.90	8.71	9.56	9.40	9.80
South Carolina	8.48	8.17	7.81	9.14	8.25	8.30	8.95	8.77
South Dakota	6.48	5.43	5.00	5.09	4.89	5.59	4.99	5.35
Tennessee	NA	NA	6.36	6.06	5.71	6.73	6.74	7.04
Texas	6.94	6.00	5.18	5.20	4.89	6.16	5.40	6.43
Utah	4.83	4.19	5.59	5.33	5.51	5.57	5.61	5.72
Vermont	7.41	6.83	6.68	6.29	6.64	6.54	6.38	6.64
Virginia	NA	8.72	7.34	7.98	7.96	8.57	8.09	8.10
Washington	NA	NA	NA	NA	NA	5.84	5.79	5.63
West Virginia	NA	NA	NA	6.96	6.90	7.29	7.18	7.34
Wisconsin	5.91	6.13	6.05	6.28	5.82	6.15	6.00	6.22
Wyoming	5.08	5.03	5.19	5.03	4.98	5.19	4.91	5.11
Total	7.07	6.32	6.00	6.23	5.97	6.82	6.34	6.58

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	October	September	August	July	June	May	April	March
Alabama	10.99	10.77	10.84	11.17	10.95	9.01	7.80	7.05
Alaska	3.74	3.01	3.75	4.71	4.02	3.83	3.66	3.71
Arizona	11.96	12.93	13.11	12.17	10.95	9.52	8.09	7.35
Arkansas	8.12	8.80	8.98	9.02	8.71	7.58	6.42	6.41
California	6.87	7.00	7.20	7.06	7.31	7.00	6.79	6.77
Colorado	5.85	8.50	7.56	6.43	16.25	5.33	4.82	4.57
Connecticut	11.13	11.75	11.82	11.64	11.12	11.59	9.79	10.19
Delaware	11.69	12.86	12.69	11.74	11.06	9.50	8.56	8.18
District of Columbia	10.60	11.17	8.55	8.83	8.46	9.66	8.82	8.58
Florida	13.68	13.65	13.59	13.53	13.02	12.67	10.69	9.96
Georgia	8.03	15.61	16.04	16.85	11.80	13.61	7.14	5.81
Hawaii	19.25	19.39	18.29	18.58	18.73	19.00	19.19	19.63
Idaho	5.79	6.54	6.70	6.25	5.85	5.58	5.37	5.17
Illinois	5.98	8.08	8.18	8.71	8.11	7.96	5.81	4.95
Indiana	6.72	8.71	9.50	9.62	8.79	8.88	7.16	6.14
Iowa	7.39	11.08	10.95	11.75	8.48	7.87	6.42	4.84
Kansas	7.43	7.95	7.85	7.75	7.39	6.50	5.83	5.67
Kentucky	7.99	9.44	10.07	8.11	8.64	7.23	6.63	5.31
Louisiana	8.90	8.78	8.71	8.72	8.26	8.69	6.46	5.31
Maine	7.66	8.94	9.19	9.17	8.38	8.72	8.81	7.95
Maryland	10.06	11.22	11.50	12.01	10.81	9.84	8.35	7.52
Massachusetts	9.44	10.84	11.29	10.44	9.24	8.81	9.54	9.24
Michigan	5.43	7.03	7.42	7.19	6.29	5.91	5.16	4.74
Minnesota	6.02	7.05	7.33	7.58	7.16	6.57	5.63	5.19
Mississippi	7.74	7.80	7.84	7.84	7.56	6.66	6.09	5.44
Missouri	8.85	9.87	10.95	9.90	8.85	7.41	6.15	5.59
Montana	5.84	6.97	6.99	6.38	6.07	5.76	5.10	4.92
Nebraska	5.71	6.87	7.08	6.83	6.35	5.96	5.06	4.71
Nevada	8.00	9.25	9.27	8.69	7.74	7.30	6.90	6.80
New Hampshire	7.29	8.91	9.32	9.03	8.18	6.84	6.38	9.29
New Jersey	8.51	9.12	9.07	8.76	8.47	6.26	7.03	6.74
New Mexico	8.02	10.26	10.64	10.97	31.45	9.76	6.30	4.58
New York	11.62	12.66	13.24	7.08	11.99	10.73	9.56	8.90
North Carolina	11.70	12.53	13.25	12.02	11.78	9.26	7.89	7.75
North Dakota	5.65	7.64	9.81	7.04	6.98	5.92	5.09	4.76
Ohio	7.82	9.07	9.89	8.25	7.37	6.58	6.22	5.97
Oklahoma	8.42	9.25	9.09	8.67	8.14	6.55	5.39	5.29
Oregon	7.66	8.82	9.21	8.43	7.51	7.21	6.52	6.49
Pennsylvania	9.13	11.13	11.82	11.70	10.63	9.53	8.53	7.96
Rhode Island	10.79	12.16	12.15	11.95	10.95	9.68	9.51	9.04
South Carolina	9.56	10.05	10.29	10.13	9.70	8.21	7.65	7.79
South Dakota	6.34	8.38	8.63	8.90	6.54	6.89	5.88	5.31
Tennessee	8.58	8.87	9.44	9.12	8.46	7.36	6.82	6.36
Texas	7.98	8.59	8.77	8.66	7.76	7.15	6.15	5.02
Utah	4.74	6.08	6.95	6.64	5.34	5.67	4.81	5.46
Vermont	7.46	5.12	8.77	8.91	8.08	7.28	6.45	6.30
Virginia	10.85	12.39	12.60	12.09	11.60	10.03	8.44	7.66
Washington	6.09	6.20	6.22	6.12	5.99	5.90	5.82	5.81
West Virginia	8.19	9.82	10.54	10.67	9.81	8.16	7.51	6.81
Wisconsin	5.48	6.56	6.73	7.36	6.63	6.36	6.08	6.35
Wyoming	5.10	6.60	7.03	6.29	5.80	5.59	5.12	4.97
Total	7.60	8.96	9.25	8.53	8.51	7.70	6.81	6.29

^R Revised Data.^{NA} Not Available.

Notes: Data for 1998 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District

of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				
				October	September	August	July	June
Alabama	6.64	6.55	7.08	6.88	7.22	7.31	7.22	7.08
Alaska	2.16	2.39	2.42	2.13	1.94	1.79	1.83	1.76
Arizona	6.16	5.93	5.24	6.32	6.27	6.38	6.13	6.05
Arkansas	NA	5.14	5.22	NA	NA	5.77	5.69	NA
California	5.73	6.39	6.29	6.33	5.96	6.08	5.68	5.43
Colorado	NA	4.41	3.96	NA	NA	NA	NA	4.38
Connecticut	6.38	6.82	7.15	6.10	5.27	4.91	5.13	5.39
Delaware	7.01	7.08	6.70	7.51	8.20	8.78	8.29	7.89
District of Columbia	NA	7.29	7.95	8.35	8.14	6.92	NA	6.84
Florida	6.42	6.44	6.76	6.73	6.90	6.66	6.47	6.26
Georgia	NA	6.58	6.70	NA	NA	NA	6.55	5.99
Hawaii	14.02	14.20	14.94	15.71	14.90	14.45	14.46	14.00
Idaho	4.70	4.61	4.49	5.10	5.25	4.96	4.89	4.92
Illinois	5.10	5.16	5.49	6.36	7.26	6.80	7.98	7.15
Indiana	NA	5.71	5.57	NA	NA	NA	^R 5.03	NA
Iowa	4.68	4.81	5.14	5.47	5.80	6.19	6.25	6.44
Kansas	NA	4.96	5.39	5.54	4.78	4.92	5.48	5.85
Kentucky	4.92	5.52	5.72	5.78	5.60	4.35	5.75	5.59
Louisiana	5.59	5.56	6.19	6.37	6.49	6.23	5.79	5.56
Maine	6.75	7.35	7.69	6.55	6.89	6.89	6.81	6.70
Maryland	NA	6.64	6.57	8.56	8.76	7.34	NA	8.29
Massachusetts	NA	7.26	7.20	NA	NA	NA	NA	6.12
Michigan	4.87	4.95	5.02	5.18	5.71	6.08	5.86	5.67
Minnesota	4.35	4.41	4.82	4.62	5.02	4.65	4.50	4.61
Mississippi	NA	4.79	5.21	5.01	4.62	4.88	4.45	4.44
Missouri	5.30	5.71	5.79	5.40	5.58	5.81	5.68	3.63
Montana	5.08	5.15	4.83	5.67	5.87	6.54	5.99	5.63
Nebraska	4.03	4.35	4.76	4.33	4.36	4.11	3.84	3.94
Nevada	6.09	6.25	5.02	6.31	6.50	6.33	6.49	6.40
New Hampshire	NA	7.13	7.59	5.92	6.19	6.32	6.16	5.98
New Jersey	NA	3.84	6.08	NA	NA	NA	NA	NA
New Mexico	NA	4.33	4.68	NA	NA	NA	4.41	5.59
New York	NA	6.14	6.45	NA	NA	NA	NA	NA
North Carolina	6.12	6.54	7.04	6.61	6.13	6.28	6.13	6.12
North Dakota	4.28	4.38	4.16	5.05	5.21	4.97	5.07	4.98
Ohio	NA	5.86	6.33	5.91	6.17	NA	6.60	6.55
Oklahoma	4.94	5.14	5.38	5.23	5.28	5.36	5.43	5.98
Oregon	5.80	5.24	4.61	7.76	5.95	5.98	5.83	5.75
Pennsylvania	8.79	7.63	7.50	7.76	7.70	8.21	7.83	8.96
Rhode Island	8.04	8.13	8.26	8.15	8.58	14.12	8.91	8.70
South Carolina	6.38	6.43	6.59	6.05	6.12	6.01	5.90	6.00
South Dakota	4.39	4.54	4.58	5.36	5.56	5.99	5.29	5.37
Tennessee	NA	5.97	6.04	5.34	5.08	5.89	5.79	5.48
Texas	4.34	4.48	4.86	4.81	4.70	4.31	4.02	4.37
Utah	3.95	4.25	3.69	3.98	3.99	4.10	4.19	3.85
Vermont	5.40	5.16	5.21	5.54	5.68	5.76	5.72	5.64
Virginia	NA	6.13	6.47	6.59	6.50	^R 6.33	6.22	5.79
Washington	NA	4.72	4.71	NA	NA	NA	NA	NA
West Virginia	NA	6.31	6.39	6.29	6.65	NA	6.76	NA
Wisconsin	4.78	4.71	5.23	4.12	5.50	4.98	4.68	4.64
Wyoming	4.48	4.85	3.62	4.41	4.36	4.41	4.47	4.53
Total	5.21	5.55	5.80	5.33	5.40	^R5.26	5.23	5.23

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1999					1998		
	May	April	March	February	January	Total	December	November
Alabama	6.86	6.26	6.10	6.93	6.33	6.65	7.07	7.40
Alaska	1.95	2.28	2.34	2.38	2.44	2.41	2.46	2.48
Arizona	6.07	6.11	6.12	6.18	6.15	6.00	6.31	6.44
Arkansas	NA	5.24	4.85	5.27	4.70	5.16	5.28	5.17
California	5.24	5.57	5.17	6.28	5.82	6.33	6.38	6.08
Colorado	4.18	NA	4.14	4.12	4.15	4.34	4.21	3.86
Connecticut	6.51	6.68	6.93	7.03	6.63	6.89	7.60	6.79
Delaware	7.31	6.82	6.69	6.59	6.68	7.05	6.89	6.93
District of Columbia	6.64	6.70	6.92	7.06	7.53	7.36	7.67	7.65
Florida	6.29	6.19	6.22	6.42	6.41	6.40	6.23	6.27
Georgia	NA	3.43	2.17	2.35	3.78	6.00	2.77	3.36
Hawaii	13.28	13.08	13.19	13.41	13.79	14.15	13.81	14.00
Idaho	4.85	4.83	4.49	4.59	4.46	4.62	4.59	4.84
Illinois	6.61	4.83	4.46	4.48	4.47	5.07	4.69	4.88
Indiana	NA	NA	NA	4.52	4.39	5.50	4.72	4.89
Iowa	5.51	4.67	4.11	4.30	4.12	4.67	4.06	4.52
Kansas	5.54	4.91	NA	NA	NA	4.98	5.11	5.10
Kentucky	4.36	5.03	4.39	4.93	4.98	5.43	5.12	5.16
Louisiana	5.56	5.24	5.29	5.22	5.25	5.64	6.02	6.15
Maine	7.20	7.01	6.81	6.79	6.48	7.23	6.96	6.68
Maryland	NA	7.03	NA	NA	6.49	6.64	7.11	6.07
Massachusetts	6.24	7.79	7.72	NA	8.08	7.32	7.68	7.49
Michigan	5.14	4.94	4.69	4.68	4.65	4.90	4.78	4.70
Minnesota	4.38	4.01	4.20	4.25	4.33	4.39	4.37	4.26
Mississippi	^R 4.79	NA	4.25	4.95	NA	4.74	5.04	3.72
Missouri	5.22	5.19	5.06	5.43	5.55	5.68	5.60	5.50
Montana	4.60	4.88	4.90	4.91	4.80	5.13	5.01	5.19
Nebraska	3.88	3.77	3.98	4.00	4.14	4.25	3.77	3.74
Nevada	6.09	6.10	5.89	5.92	5.85	6.28	6.22	6.69
New Hampshire	NA	5.40	6.97	7.15	6.89	7.18	7.38	7.30
New Jersey	NA	NA	NA	NA	NA	3.70	3.15	3.22
New Mexico	5.25	4.08	3.53	3.40	2.45	4.04	3.15	3.42
New York	NA	NA	NA	NA	NA	6.08	6.05	5.61
North Carolina	5.85	5.62	5.87	6.44	6.25	6.63	7.16	6.90
North Dakota	3.94	3.94	4.09	4.04	4.19	4.37	4.33	4.35
Ohio	5.82	5.37	5.26	5.33	5.67	5.83	5.69	5.70
Oklahoma	4.98	4.70	5.09	5.23	4.49	5.05	4.10	6.05
Oregon	5.65	5.65	5.63	5.64	5.51	5.25	5.96	4.39
Pennsylvania	7.09	19.91	7.00	7.22	7.26	7.43	6.82	6.70
Rhode Island	8.45	8.03	7.73	7.75	7.74	8.12	8.02	8.11
South Carolina	6.04	6.45	6.40	6.94	6.75	6.48	6.77	6.61
South Dakota	4.91	4.23	3.90	4.16	3.92	4.43	3.98	4.25
Tennessee	5.39	NA	5.68	5.72	5.67	6.04	6.40	6.34
Texas	4.16	4.47	4.04	4.29	4.36	4.44	4.30	4.27
Utah	3.31	3.24	4.25	4.14	4.20	4.35	4.53	4.68
Vermont	5.57	5.50	5.49	5.23	5.12	5.08	4.72	4.95
Virginia	NA	5.82	5.67	6.04	5.81	6.12	6.02	6.11
Washington	NA	NA	NA	NA	NA	4.75	4.68	5.32
West Virginia	^R 6.88	6.06	6.19	6.23	6.23	6.26	5.97	6.30
Wisconsin	4.28	4.41	4.77	4.89	5.04	4.70	4.68	4.71
Wyoming	4.51	4.44	4.51	4.47	4.55	4.45	2.85	4.65
Total	5.14	5.70	5.00	5.17	5.08	5.48	5.23	5.22

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	October	September	August	July	June	May	April	March
Alabama	6.94	6.80	6.85	7.11	7.11	6.70	6.42	6.16
Alaska	2.33	3.23	2.15	2.08	2.05	2.24	2.32	2.40
Arizona	6.51	5.83	6.36	6.31	6.25	6.20	5.84	5.55
Arkansas	4.91	5.03	5.00	5.30	5.17	5.32	5.20	5.05
California	5.73	5.93	5.98	5.59	6.01	5.77	6.76	7.18
Colorado	3.94	4.59	4.40	4.91	4.84	4.58	4.35	4.33
Connecticut	5.54	5.48	5.57	4.69	5.92	7.08	6.91	7.47
Delaware	8.05	8.72	8.40	8.14	7.81	7.33	6.85	6.70
District of Columbia	7.45	7.32	7.11	6.95	6.94	6.96	7.06	7.42
Florida	6.28	6.12	6.14	6.37	6.48	6.57	6.45	6.68
Georgia	4.95	9.16	9.03	9.51	7.66	8.09	5.70	5.57
Hawaii	14.04	16.65	10.88	13.40	13.53	14.07	14.19	14.48
Idaho	4.92	4.95	4.89	4.91	4.84	4.78	4.77	4.47
Illinois	5.32	6.10	6.41	8.18	6.25	6.84	5.26	4.72
Indiana	5.33	6.19	6.57	6.41	6.10	6.40	6.14	5.35
Iowa	5.15	6.54	6.44	7.71	4.27	5.79	5.32	3.81
Kansas	5.34	5.50	4.30	5.35	5.51	5.61	5.94	3.76
Kentucky	5.78	5.79	5.83	6.34	5.91	5.27	5.60	5.38
Louisiana	6.07	5.79	5.64	5.81	5.55	6.30	5.54	4.96
Maine	6.55	6.89	6.89	6.81	6.70	7.20	7.89	7.67
Maryland	7.71	7.27	7.40	7.89	7.13	7.48	7.06	6.17
Massachusetts	6.06	6.19	6.48	6.24	6.19	6.48	7.54	7.78
Michigan	5.12	5.42	5.78	5.96	5.45	5.28	4.98	4.64
Minnesota	4.22	3.92	4.43	4.65	4.45	4.63	4.52	4.40
Mississippi	4.78	3.85	4.35	4.50	4.48	4.93	5.18	4.95
Missouri	6.17	5.71	6.04	6.01	5.65	5.52	5.40	5.30
Montana	5.68	6.19	6.18	5.78	5.79	5.50	5.01	4.87
Nebraska	3.50	3.31	3.51	3.68	3.67	4.00	4.16	5.77
Nevada	6.99	7.32	7.30	6.43	6.25	6.08	6.09	6.02
New Hampshire	5.94	6.40	6.70	6.59	6.45	5.98	6.18	7.92
New Jersey	3.14	2.98	2.79	3.85	3.61	3.70	4.03	3.70
New Mexico	4.16	4.50	4.70	4.85	6.44	5.16	4.51	4.02
New York	5.40	5.64	4.59	5.49	5.15	6.36	6.55	6.15
North Carolina	6.24	6.27	6.29	6.46	6.17	6.19	6.10	6.46
North Dakota	4.43	4.77	7.34	4.76	4.90	4.58	4.19	4.20
Ohio	6.92	7.03	7.75	6.15	6.26	5.72	5.75	5.58
Oklahoma	5.18	5.22	5.18	5.22	5.08	4.80	4.43	5.11
Oregon	5.48	5.50	5.86	5.71	5.48	5.45	5.16	5.13
Pennsylvania	7.41	8.06	8.32	8.22	8.24	8.50	7.91	7.42
Rhode Island	8.65	9.14	9.35	8.98	8.88	8.37	8.10	7.88
South Carolina	5.76	5.91	5.93	5.91	5.98	5.94	6.42	6.58
South Dakota	4.86	5.67	5.62	6.25	4.34	5.09	4.71	4.38
Tennessee	6.87	5.85	6.27	5.98	5.96	5.89	5.98	5.97
Texas	4.20	4.19	4.06	4.17	3.98	5.21	4.60	4.19
Utah	3.99	4.42	4.80	4.36	3.92	3.92	3.75	4.35
Vermont	4.81	4.63	5.17	4.91	5.30	5.98	5.14	5.10
Virginia	6.33	6.24	6.63	5.91	6.33	5.59	5.74	5.89
Washington	4.77	4.85	4.91	4.90	4.82	4.73	4.68	4.68
West Virginia	6.36	6.29	6.71	7.10	7.03	7.47	6.37	6.15
Wisconsin	3.81	4.12	4.45	4.79	4.34	4.07	4.56	5.05
Wyoming	4.81	4.89	5.95	5.19	5.12	4.87	4.73	4.71
Total	5.31	5.49	5.46	5.64	5.51	5.73	5.64	5.40

^R Revised Data.^{NA} Not Available.

Notes: Data for 1998 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 25 for data on

onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				
				October	September	August	July	June
Alabama	3.26	3.28	3.61	3.39	3.59	3.33	3.06	3.15
Alaska	1.22	1.37	1.54	1.29	1.16	1.33	1.27	1.24
Arizona	3.40	3.25	3.67	3.55	3.48	3.29	3.26	3.62
Arkansas	NA	3.46	3.61	3.86	3.84	3.92	3.64	NA
California	NA	3.72	4.01	4.02	2.44	3.67	3.48	3.34
Colorado	NA	1.59	0.74	NA	NA	NA	NA	2.41
Connecticut	4.04	4.33	4.65	4.16	3.92	3.82	3.54	3.70
Delaware	4.10	4.23	4.31	4.61	4.64	4.25	4.16	4.11
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.93	4.00	4.33	3.86	4.35	4.20	3.99	4.11
Georgia	NA	4.16	4.58	NA	NA	NA	4.12	3.46
Hawaii	8.20	—	—	8.29	8.28	8.04	8.04	8.31
Idaho	3.25	3.09	2.76	3.29	3.23	3.22	3.59	3.21
Illinois	3.88	4.03	3.86	5.17	4.56	4.05	4.17	4.03
Indiana	NA	4.35	4.36	NA	NA	^R 3.70	^R 3.93	^R 3.95
Iowa	3.74	3.37	3.99	4.63	4.59	3.96	2.30	6.02
Kansas	NA	3.17	3.24	3.39	2.83	2.59	2.52	2.51
Kentucky	3.16	4.08	4.02	3.34	3.36	3.26	2.99	2.90
Louisiana	2.16	2.50	2.81	2.39	2.53	2.41	2.28	2.07
Maine	4.74	5.04	5.32	4.22	3.92	3.80	4.17	4.10
Maryland	NA	5.34	3.35	6.59	6.78	4.48	5.74	6.00
Massachusetts	NA	5.60	5.59	NA	NA	NA	NA	NA
Michigan	3.93	3.96	4.03	4.25	4.51	4.81	5.11	4.46
Minnesota	2.89	2.88	3.21	3.94	3.47	2.68	2.87	2.27
Mississippi	NA	3.25	3.48	3.39	3.63	3.36	3.09	3.09
Missouri	NA	4.40	4.52	4.41	4.13	3.92	3.69	3.91
Montana	4.60	4.74	4.79	5.29	5.71	6.07	5.67	5.99
Nebraska	3.30	3.25	3.75	3.63	3.68	3.50	3.16	3.41
Nevada	4.58	4.89	7.62	4.51	4.83	4.79	4.71	4.76
New Hampshire	4.08	4.61	4.57	3.79	3.78	3.66	3.49	3.69
New Jersey	NA	3.08	3.72	NA	NA	NA	NA	NA
New Mexico	NA	3.41	3.37	NA	NA	NA	3.39	3.35
New York	NA	4.03	4.93	4.95	4.84	NA	NA	NA
North Carolina	3.50	3.95	4.55	5.60	3.77	3.10	3.03	3.22
North Dakota	2.69	2.81	2.99	3.14	3.24	3.00	2.73	2.59
Ohio	NA	4.43	4.93	5.28	5.11	NA	6.61	5.45
Oklahoma	3.55	3.70	4.06	3.48	3.52	3.32	3.48	3.45
Oregon	2.71	3.72	2.98	3.94	4.08	4.01	3.93	3.94
Pennsylvania	4.16	4.17	4.63	4.12	3.97	3.83	3.77	3.80
Rhode Island	3.83	3.83	4.25	4.62	4.19	2.61	3.33	3.29
South Carolina	3.21	3.29	3.63	3.68	3.74	3.45	3.10	3.22
South Dakota	3.27	3.34	4.01	3.76	3.85	3.51	3.53	3.54
Tennessee	NA	3.90	4.05	1.52	2.20	2.77	2.69	3.31
Texas	NA	2.33	2.70	2.84	2.97	2.86	2.53	2.41
Utah	2.96	2.96	2.45	2.90	2.93	2.85	2.85	2.86
Vermont	2.91	2.88	3.05	3.39	3.23	3.02	2.83	2.82
Virginia	NA	3.89	4.64	3.50	NA	4.23	3.39	3.49
Washington	NA	2.69	3.13	NA	NA	NA	NA	NA
West Virginia	NA	3.40	2.91	3.25	3.58	^R 3.42	2.84	NA
Wisconsin	3.73	3.76	3.96	3.60	4.07	3.73	3.30	3.53
Wyoming	NA	3.37	3.46	NA	NA	NA	NA	3.20
Total	2.93	3.16	3.47	3.15	3.09	^R 3.03	^R 2.88	^R 2.84

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1999					1998		
	May	April	March	February	January	Total	December	November
Alabama	3.30	3.24	3.05	3.34	3.24	3.30	3.59	3.32
Alaska	1.21	1.18	1.17	1.18	1.20	1.34	1.22	1.22
Arizona	3.11	3.26	3.71	3.42	3.48	3.26	3.38	3.24
Arkansas	3.57	3.35	3.42	3.48	3.40	3.48	3.78	3.33
California	2.86	3.12	3.09	NA	4.02	3.77	3.70	3.60
Colorado	2.46	2.28	2.16	2.32	2.41	2.61	0.93	1.17
Connecticut	3.70	3.98	4.23	4.39	4.49	4.34	4.55	4.22
Delaware	3.48	4.27	4.00	3.93	4.33	4.13	3.68	3.79
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.92	3.82	3.66	3.92	3.82	3.98	3.74	3.94
Georgia	NA	3.39	2.76	2.64	2.55	3.92	2.18	2.55
Hawaii	8.52	8.02	8.10	8.07	8.41	—	8.64	—
Idaho	3.22	3.26	3.14	3.23	3.19	3.09	3.08	3.16
Illinois	3.85	3.17	3.50	3.71	3.81	3.96	3.82	3.63
Indiana	NA	NA	NA	3.01	NA	4.28	4.06	3.84
Iowa	3.52	3.27	3.33	3.52	3.32	3.49	3.57	3.83
Kansas	NA	2.97	2.98	3.25	NA	3.17	3.26	3.17
Kentucky	3.09	2.90	3.10	3.35	3.17	4.00	3.97	3.42
Louisiana	1.98	1.89	1.88	1.95	2.12	2.31	1.65	2.35
Maine	4.61	6.11	5.76	6.05	5.20	5.13	6.13	4.97
Maryland	NA	3.80	4.25	6.65	6.18	5.26	5.22	4.74
Massachusetts	4.50	NA	NA	6.88	4.62	5.69	6.45	5.60
Michigan	3.83	3.69	3.76	3.66	3.92	3.91	3.88	3.53
Minnesota	3.07	2.52	2.67	2.81	2.86	2.88	2.96	2.77
Mississippi	3.18	NA	^R 2.65	3.12	NA	3.22	3.32	2.77
Missouri	4.00	3.97	4.00	NA	4.74	4.51	3.83	4.28
Montana	4.33	4.79	4.79	4.78	3.40	4.68	4.21	4.64
Nebraska	3.14	3.05	3.21	3.12	3.35	3.26	3.33	3.31
Nevada	4.62	4.51	4.45	4.50	4.50	4.74	4.59	4.53
New Hampshire	1.79	2.06	6.42	6.73	6.51	4.66	5.08	4.98
New Jersey	NA	NA	NA	NA	NA	2.97	2.46	2.58
New Mexico	3.36	NA	3.60	3.58	NA	3.22	0.56	2.69
New York	NA	NA	NA	NA	NA	4.02	3.05	3.02
North Carolina	3.07	3.09	3.79	3.60	3.63	3.96	4.13	3.91
North Dakota	2.77	2.37	2.47	2.53	2.66	2.82	3.07	2.58
Ohio	3.45	5.17	4.90	5.13	5.42	4.39	4.65	3.69
Oklahoma	4.73	3.28	3.50	3.50	3.45	3.66	3.43	3.33
Oregon	3.96	3.89	0.81	4.37	3.87	3.75	4.23	3.48
Pennsylvania	3.92	4.19	4.41	4.45	4.59	4.15	4.16	3.99
Rhode Island	3.74	3.52	4.32	4.77	5.00	3.82	3.85	3.68
South Carolina	3.07	2.79	2.93	3.15	3.00	3.29	3.31	3.22
South Dakota	3.26	3.02	3.03	3.12	3.13	3.28	3.11	3.13
Tennessee	3.19	NA	3.37	3.54	3.57	3.94	3.26	4.07
Texas	NA	2.14	1.98	2.04	2.12	2.35	2.27	2.16
Utah	2.92	2.99	3.31	3.16	2.85	3.00	3.20	3.15
Vermont	2.80	2.74	2.72	2.75	3.00	2.80	2.61	2.30
Virginia	NA	3.13	3.76	3.88	5.07	4.07	5.16	4.34
Washington	NA	NA	NA	NA	NA	2.64	2.51	2.44
West Virginia	2.68	NA	NA	2.82	^R 2.40	3.39	3.35	3.30
Wisconsin	3.41	3.86	3.72	3.82	3.90	3.78	3.85	3.90
Wyoming	3.66	4.00	3.83	NA	3.74	3.37	3.38	3.37
Total	2.65	2.79	^R2.76	2.97	3.07	3.14	2.92	2.95

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	October	September	August	July	June	May	April	March
Alabama	3.28	3.05	3.16	3.22	3.19	3.20	3.49	2.95
Alaska	1.22	1.21	1.22	1.22	1.40	1.43	1.42	1.45
Arizona	2.99	3.09	3.08	3.23	3.37	3.31	3.32	3.20
Arkansas	3.25	3.05	3.10	3.49	3.29	3.38	3.59	3.80
California	2.83	3.38	3.33	3.56	3.53	3.01	4.11	3.45
Colorado	1.22	0.78	1.39	1.51	1.49	1.55	1.67	1.85
Connecticut	3.88	3.48	3.66	3.63	3.72	4.16	4.58	4.77
Delaware	3.70	4.33	5.05	4.26	4.29	4.26	4.56	3.94
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.91	3.53	3.67	4.04	3.89	4.07	4.31	4.14
Georgia	3.20	3.71	4.09	3.07	4.08	4.45	4.16	4.27
Hawaii	—	—	—	—	—	—	—	—
Idaho	3.02	2.94	3.32	2.97	3.10	3.09	3.10	3.25
Illinois	3.34	3.73	4.41	3.12	4.52	4.21	4.04	4.15
Indiana	3.34	3.86	5.45	4.98	3.69	4.45	4.85	4.20
Iowa	3.71	3.61	3.29	4.45	2.45	4.54	3.24	2.45
Kansas	2.86	2.45	2.82	2.94	3.20	3.48	3.73	3.74
Kentucky	3.94	3.89	3.94	3.83	3.72	3.49	4.20	3.93
Louisiana	2.30	2.04	2.19	2.54	2.68	2.89	2.46	2.50
Maine	4.26	3.96	3.84	4.21	4.14	4.75	6.19	6.08
Maryland	4.14	5.76	4.48	8.08	5.37	4.53	5.24	5.81
Massachusetts	4.23	4.13	4.26	4.72	4.76	4.54	5.89	6.54
Michigan	4.20	4.58	5.10	4.67	4.23	3.93	3.73	3.54
Minnesota	2.63	2.64	2.86	2.79	2.54	2.97	3.01	3.03
Mississippi	3.05	3.09	3.06	3.41	3.10	3.31	3.37	3.32
Missouri	4.02	4.13	4.07	3.93	4.30	4.27	4.10	4.20
Montana	4.84	9.73	6.61	5.96	5.63	5.15	4.56	4.39
Nebraska	2.89	2.59	2.75	3.27	3.37	3.37	3.38	3.37
Nevada	4.39	4.35	4.46	5.86	5.81	5.94	5.84	6.00
New Hampshire	2.89	3.79	3.63	3.67	3.47	4.00	4.10	5.87
New Jersey	2.50	2.47	2.50	3.14	3.18	3.40	3.32	3.33
New Mexico	2.77	3.17	3.33	3.22	3.72	3.79	4.19	5.84
New York	2.64	2.44	2.55	2.82	2.55	3.21	3.21	10.85
North Carolina	3.64	3.56	3.63	3.61	3.58	3.69	3.64	4.20
North Dakota	2.45	2.06	2.47	2.79	2.54	3.08	3.03	3.15
Ohio	4.66	4.64	6.02	4.73	4.19	4.18	4.20	4.57
Oklahoma	3.58	3.34	3.38	3.35	3.37	3.06	3.28	4.05
Oregon	3.94	3.55	3.72	3.78	3.80	3.72	3.70	3.70
Pennsylvania	3.83	3.91	3.74	3.83	3.97	3.95	4.28	4.44
Rhode Island	3.93	3.08	2.98	3.59	3.58	3.75	4.04	4.06
South Carolina	3.16	2.95	2.50	3.43	3.25	3.37	3.48	3.59
South Dakota	3.27	3.44	3.29	3.22	3.55	3.49	3.38	3.37
Tennessee	3.44	3.54	3.49	4.51	3.62	3.71	3.78	3.86
Texas	2.12	1.85	2.13	2.50	2.21	2.42	2.45	2.45
Utah	2.94	2.99	3.26	3.11	2.70	2.82	2.87	2.96
Vermont	2.84	2.74	2.77	2.78	2.78	2.87	2.86	2.94
Virginia	3.75	3.24	3.22	3.95	3.56	3.24	3.02	4.21
Washington	2.35	2.39	2.60	2.51	2.84	4.02	2.86	2.73
West Virginia	3.62	3.42	3.46	3.51	3.40	3.21	3.47	3.39
Wisconsin	3.25	2.98	3.44	3.65	3.33	3.57	4.08	4.03
Wyoming	3.29	3.32	3.36	3.35	3.32	3.50	3.38	3.40
Total	2.75	2.65	2.75	3.04	2.97	3.14	3.28	3.40

^R Revised Data.

NA Not Available.

— Not Applicable.

Notes: Data for 1998 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 25 for data on

onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				
				September	August	July	June	May
Alabama	2.74	2.54	2.63	3.64	2.28	3.26	2.73	2.70
Alaska	1.61	1.83	1.70	1.40	1.50	1.62	1.59	1.61
Arizona	2.60	2.45	2.97	3.03	2.84	2.56	2.62	2.67
Arkansas	2.59	2.28	2.54	3.06	2.96	2.58	2.49	2.52
California	2.70	2.79	3.01	3.19	3.00	2.71	2.57	2.72
Colorado	2.59	2.84	3.30	2.94	2.52	2.53	3.18	2.60
Connecticut	2.62	2.43	2.42	2.88	2.65	2.59	2.52	2.50
Delaware	2.83	2.82	3.06	3.35	3.06	2.72	2.71	2.53
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.34	2.33	2.44	2.52	2.43	2.13	2.36	2.37
Georgia	2.52	3.19	2.68	2.62	2.66	2.60	2.47	2.58
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.38	2.25	2.39	2.86	2.72	2.48	2.44	2.36
Indiana	2.91	2.85	3.07	4.04	2.86	2.82	2.79	3.19
Iowa	3.04	2.99	3.15	3.52	2.94	2.93	2.97	3.01
Kansas	2.34	2.12	2.24	2.73	2.60	2.31	2.35	2.35
Kentucky	3.15	3.12	3.15	3.33	3.26	2.88	3.15	5.12
Louisiana	2.53	2.41	2.68	3.07	2.92	2.55	2.52	2.58
Maine	—	—	—	—	—	—	—	—
Maryland	3.06	2.75	2.84	3.29	3.44	2.98	2.88	3.27
Massachusetts	2.67	2.85	2.94	2.99	2.99	2.73	2.75	2.58
Michigan	1.58	1.21	0.69	1.19	1.67	1.92	1.79	1.74
Minnesota	2.49	2.40	2.42	3.08	1.93	2.60	2.48	2.32
Mississippi	2.43	2.35	2.64	2.79	2.79	2.43	2.43	2.45
Missouri	2.62	2.22	2.56	2.81	2.91	2.54	2.48	2.41
Montana	4.30	4.32	8.47	5.15	6.14	4.20	4.40	10.99
Nebraska	2.70	2.37	2.38	3.05	3.24	2.59	2.63	2.72
Nevada	2.44	2.39	2.09	2.78	2.49	2.43	2.46	2.43
New Hampshire	2.87	—	2.71	3.02	3.02	2.43	2.44	—
New Jersey	3.05	2.73	2.91	3.24	3.37	2.97	2.88	2.85
New Mexico	2.27	2.23	2.56	2.69	2.68	2.30	2.31	2.22
New York	2.76	2.58	2.73	3.20	3.05	2.80	2.72	2.71
North Carolina	2.83	2.72	3.08	3.11	3.09	2.56	2.70	2.71
North Dakota	—	—	3.81	—	—	—	—	—
Ohio	2.98	3.46	3.57	2.91	2.98	3.31	2.99	2.42
Oklahoma	2.68	2.49	2.82	3.18	2.94	2.65	2.59	2.66
Oregon	1.84	1.40	1.50	1.83	1.66	1.78	1.99	1.91
Pennsylvania	3.00	3.18	2.76	2.95	3.12	3.40	2.29	3.18
Rhode Island	—	3.38	3.18	—	—	—	—	—
South Carolina	3.63	3.60	4.15	3.99	3.85	3.47	3.70	3.46
South Dakota	—	1.77	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.45	2.32	2.59	2.88	2.83	2.44	2.40	2.44
Utah	2.47	2.04	2.12	2.85	2.67	2.39	2.43	2.36
Vermont	3.23	2.90	3.04	3.25	3.31	—	2.94	3.03
Virginia	3.09	2.97	2.83	3.35	3.42	2.78	3.39	2.89
Washington	—	2.79	5.66	—	—	—	—	—
West Virginia	3.00	4.26	3.97	2.91	2.93	3.13	3.08	2.81
Wisconsin	2.89	2.69	2.96	3.45	2.99	2.90	2.80	2.92
Wyoming	4.19	8.60	13.10	5.75	4.59	3.14	2.60	6.59
Total	2.50	2.40	2.64	2.86	2.80	2.52	2.47	2.48

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1999				1998			
	April	March	February	January	Total	December	November	October
Alabama	2.52	2.25	2.07	2.22	2.58	2.68	2.47	2.62
Alaska	1.60	1.72	1.70	1.68	1.80	1.72	1.74	1.72
Arizona	2.22	2.13	2.29	2.32	2.42	2.38	2.77	2.11
Arkansas	2.22	1.88	1.94	2.04	2.29	2.35	—	2.25
California	2.42	2.75	2.55	2.70	2.79	2.96	2.86	2.56
Colorado	2.25	2.18	2.24	3.26	2.98	3.33	3.15	2.71
Connecticut	2.54	2.12	2.02	2.11	2.44	1.90	2.45	2.07
Delaware	2.46	2.46	2.98	3.34	2.89	3.34	3.24	2.66
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.31	2.01	2.86	2.08	2.27	1.39	2.30	2.30
Georgia	2.13	1.37	2.15	4.83	3.21	2.11	2.67	3.80
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.20	1.86	1.81	2.27	2.25	2.12	2.31	2.20
Indiana	3.14	2.71	2.78	2.99	2.88	3.36	2.86	3.23
Iowa	2.77	3.13	3.45	3.62	3.07	3.38	3.11	2.93
Kansas	2.08	1.80	1.96	2.24	2.14	2.21	2.25	2.03
Kentucky	3.77	3.33	2.99	2.51	3.40	2.90	3.11	2.85
Louisiana	2.25	2.01	2.08	2.13	2.37	2.16	2.32	2.25
Maine	—	—	—	—	—	—	—	—
Maryland	2.55	2.60	3.46	3.52	2.75	2.64	3.85	3.13
Massachusetts	2.26	2.10	2.13	2.43	2.78	2.26	2.44	2.28
Michigan	1.09	0.88	1.33	2.07	1.24	1.25	1.10	1.46
Minnesota	2.31	2.56	3.49	3.02	2.36	3.43	2.69	2.32
Mississippi	2.30	1.91	1.95	2.05	2.31	1.97	2.28	2.21
Missouri	2.31	2.16	2.29	2.34	2.26	2.31	2.32	2.14
Montana	5.69	7.37	5.20	2.04	2.06	1.48	1.37	1.30
Nebraska	2.46	1.37	2.79	2.28	2.40	2.92	2.81	2.10
Nevada	2.55	2.07	2.40	2.20	2.38	2.01	2.61	2.33
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	2.94	2.46	2.76	2.95	2.74	2.44	3.11	2.74
New Mexico	2.05	1.79	1.89	2.03	2.22	2.14	2.34	2.02
New York	2.49	2.37	2.55	2.80	2.57	2.43	2.80	2.30
North Carolina	3.31	3.32	3.33	3.34	2.81	3.93	3.59	3.00
North Dakota	—	—	—	—	—	—	—	—
Ohio	2.06	2.99	3.32	3.88	3.24	3.88	4.36	3.88
Oklahoma	2.58	2.28	2.48	2.32	2.48	2.28	2.50	2.41
Oregon	1.79	1.67	1.83	2.01	1.56	1.92	1.88	1.63
Pennsylvania	2.55	3.02	2.98	2.94	3.26	4.88	6.91	2.50
Rhode Island	—	—	—	—	3.38	—	—	—
South Carolina	2.94	3.02	2.86	3.00	3.62	4.05	3.71	3.21
South Dakota	—	—	—	—	1.77	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.17	1.99	2.09	2.10	2.30	2.24	2.25	2.16
Utah	2.36	2.56	2.19	2.24	2.11	2.45	2.42	2.20
Vermont	2.56	2.44	2.47	2.55	2.90	2.87	2.84	2.86
Virginia	2.79	3.09	3.12	3.18	3.10	4.03	3.72	3.09
Washington	—	—	—	—	3.44	—	—	—
West Virginia	3.12	2.96	2.93	3.19	3.29	3.02	3.25	1.20
Wisconsin	2.63	2.51	2.79	2.64	2.67	2.73	2.63	2.42
Wyoming	13.06	6.02	4.83	6.92	8.31	11.18	14.27	5.33
Total	2.25	2.11	2.27	2.25	2.40	2.22	2.37	2.22

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	September	August	July	June	May	April	March	February
Alabama	2.46	2.50	2.63	2.49	2.62	2.69	2.55	2.44
Alaska	1.73	1.76	1.80	1.87	1.84	1.84	1.85	1.88
Arizona	2.33	2.28	2.41	2.79	3.20	2.82	3.07	2.56
Arkansas	2.15	2.05	2.49	2.33	2.33	2.56	2.36	2.16
California	2.50	2.83	2.92	2.70	2.94	2.71	2.85	2.79
Colorado	2.82	3.31	2.77	2.83	2.56	2.53	2.61	2.65
Connecticut	2.22	2.34	2.46	2.38	2.56	2.70	2.79	2.63
Delaware	2.41	2.66	3.47	3.27	1.34	1.41	4.15	3.21
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.18	2.18	2.27	2.31	2.31	2.68	2.64	2.49
Georgia	4.00	2.82	3.18	2.91	3.72	1.94	1.72	2.88
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.01	1.95	2.27	2.37	2.37	2.55	2.34	2.28
Indiana	2.74	2.58	2.80	2.95	2.98	3.37	3.25	2.64
Iowa	2.91	2.80	3.01	2.86	3.16	3.14	3.35	3.00
Kansas	1.87	1.99	2.28	2.14	2.20	2.40	2.36	1.97
Kentucky	2.42	2.43	2.86	3.68	3.59	5.25	4.04	3.58
Louisiana	2.12	2.17	2.59	2.40	2.52	2.66	2.51	2.47
Maine	—	—	—	—	—	—	—	—
Maryland	2.53	2.49	2.84	2.93	2.96	3.33	3.18	3.32
Massachusetts	2.13	2.35	2.62	2.24	2.86	3.66	3.64	2.95
Michigan	1.67	1.38	1.34	1.29	1.20	1.35	0.75	0.84
Minnesota	2.00	2.41	2.48	2.42	2.74	2.76	2.83	2.62
Mississippi	2.16	2.16	2.47	2.36	2.41	2.56	2.46	2.46
Missouri	2.13	1.95	2.39	2.41	2.31	2.56	2.52	2.82
Montana	1.02	4.99	2.47	2.59	5.34	1.40	12.33	8.49
Nebraska	1.93	2.49	2.62	2.37	2.40	1.98	2.72	4.47
Nevada	2.42	2.42	2.34	2.73	2.44	2.31	2.02	2.37
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	2.56	2.46	2.92	2.73	2.77	3.05	2.88	2.83
New Mexico	1.90	2.03	2.32	2.20	2.33	2.41	2.39	2.30
New York	2.21	2.29	2.63	2.51	2.64	2.87	2.96	2.95
North Carolina	2.53	2.55	2.92	2.78	2.89	3.37	4.03	—
North Dakota	—	—	—	—	—	—	—	—
Ohio	4.09	3.93	2.98	2.79	3.06	4.01	4.14	3.16
Oklahoma	2.16	2.07	2.52	2.41	2.52	2.88	2.62	2.72
Oregon	1.48	1.56	1.46	1.31	1.50	1.36	1.23	1.03
Pennsylvania	3.74	2.63	3.18	2.32	5.37	5.94	2.69	2.64
Rhode Island	—	3.40	3.38	3.40	3.43	3.45	3.19	3.24
South Carolina	3.37	3.53	3.58	3.92	3.41	3.44	3.58	3.53
South Dakota	1.77	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.05	2.11	2.46	2.34	2.38	2.52	2.43	2.41
Utah	1.95	2.04	2.15	1.94	—	—	—	—
Vermont	2.54	2.67	3.09	2.81	3.03	3.08	2.81	2.77
Virginia	2.76	2.60	3.02	2.93	2.99	4.46	3.34	3.78
Washington	—	—	—	—	—	5.59	3.86	4.11
West Virginia	2.94	3.85	6.31	2.62	3.58	—	—	—
Wisconsin	2.31	2.49	2.80	2.64	2.95	3.13	2.75	2.91
Wyoming	6.64	67.70	8.23	7.66	11.70	4.77	10.42	8.72
Total	2.15	2.21	2.50	2.40	2.47	2.59	2.53	2.51

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

— Not Applicable.

Notes: Data for 1998 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District

of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999

State	YTD 1999		YTD 1998		YTD 1997		1999	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	October	
							Commercial	Industrial
Alabama	66.1	15.2	81.6	23.5	61.9	24.6	45.0	14.1
Alaska	54.9	99.5	49.5	99.3	54.9	97.8	54.8	97.4
Arizona	82.9	35.7	85.3	33.2	84.5	25.1	79.0	39.0
Arkansas	NA	NA	91.5	9.0	94.4	10.5	NA	10.1
California	55.6	9.2	49.8	9.4	50.0	8.9	53.9	8.0
Colorado	NA	NA	94.2	13.1	93.1	23.6	NA	NA
Connecticut	64.5	57.1	68.8	55.2	84.0	66.4	56.5	54.5
Delaware	100.0	16.6	100.0	22.1	100.0	31.0	100.0	9.1
District of Columbia	NA	—	51.7	—	54.2	—	36.8	—
Florida	92.3	3.2	96.8	7.2	97.8	10.0	92.9	2.8
Georgia	NA	NA	84.7	26.2	88.8	26.7	NA	NA
Hawaii	100.0	100.0	100.0	—	100.0	—	100.0	100.0
Idaho	86.4	2.7	86.7	2.5	86.2	2.0	79.0	2.1
Illinois	41.9	8.0	48.2	8.9	54.9	11.5	38.6	6.3
Indiana	NA	NA	79.2	9.4	88.3	16.0	NA	NA
Iowa	83.1	7.3	85.3	6.2	88.4	8.6	79.4	7.3
Kansas	NA	NA	71.3	10.7	70.4	9.2	59.5	10.0
Kentucky	85.7	16.5	87.3	16.8	89.7	19.2	83.0	18.1
Louisiana	96.3	7.4	94.9	7.9	95.9	10.1	96.2	7.9
Maine	100.0	86.5	100.0	87.8	100.0	91.4	100.0	86.8
Maryland	NA	NA	36.3	6.4	69.8	7.4	24.2	4.5
Massachusetts	NA	NA	55.8	13.1	61.8	20.2	NA	NA
Michigan	57.6	8.4	59.1	8.0	63.2	9.0	48.7	5.9
Minnesota	96.0	37.6	98.0	39.6	98.9	40.4	98.1	44.5
Mississippi	NA	NA	94.6	37.3	94.9	39.6	93.5	33.2
Missouri	77.3	17.7	78.5	18.1	79.5	21.8	69.3	12.9
Montana	80.1	1.5	77.5	1.5	91.5	3.1	80.3	1.5
Nebraska	64.6	19.3	76.8	12.0	74.0	27.0	78.4	17.2
Nevada	58.0	8.1	70.9	3.8	71.3	1.8	54.6	24.5
New Hampshire	NA	25.3	93.8	32.3	92.6	48.8	90.6	28.5
New Jersey	NA	NA	60.7	46.4	58.0	47.0	NA	NA
New Mexico	NA	NA	64.3	10.2	69.0	9.5	NA	NA
New York	NA	NA	52.6	5.7	64.1	8.5	NA	27.8
North Carolina	79.1	48.1	91.0	31.9	93.5	45.5	84.1	39.8
North Dakota	87.1	13.4	82.9	13.7	89.4	18.5	88.9	26.5
Ohio	NA	NA	56.3	4.1	65.0	5.7	36.5	1.5
Oklahoma	72.9	4.2	74.0	3.5	82.8	4.7	63.8	3.4
Oregon	98.8	14.7	99.0	14.2	98.5	16.3	98.2	12.0
Pennsylvania	56.0	11.1	56.5	13.0	63.5	14.2	46.9	9.9
Rhode Island	53.8	6.9	61.0	7.2	82.8	17.4	43.6	26.8
South Carolina	91.8	82.8	98.1	86.8	98.8	86.9	93.4	82.3
South Dakota	80.9	36.4	84.0	33.1	82.7	24.1	75.6	25.5
Tennessee	NA	NA	87.1	33.1	91.7	38.3	78.7	49.7
Texas	76.1	NA	80.2	14.3	60.2	17.3	72.3	12.6
Utah	82.0	10.0	81.9	8.3	82.5	8.9	79.9	11.0
Vermont	100.0	75.1	100.0	100.0	100.0	100.0	100.0	75.2
Virginia	NA	NA	71.5	12.1	77.7	13.0	61.2	11.8
Washington	NA	NA	86.7	19.4	89.4	23.5	NA	NA
West Virginia	NA	NA	48.5	6.2	53.9	12.2	39.6	13.0
Wisconsin	71.9	20.4	72.8	21.4	81.3	27.1	71.6	20.7
Wyoming	89.6	NA	89.1	2.0	82.2	2.5	84.1	NA
Total	65.0	16.6	67.1	15.3	70.5	17.7	60.8	15.9

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1999							
	September		August		July		June	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	48.8	14.4	47.0	14.2	50.9	14.7	53.4	15.3
Alaska	56.7	100.0	55.9	99.9	56.3	98.4	57.4	100.0
Arizona	78.6	40.8	78.7	34.1	83.0	43.0	82.1	37.2
Arkansas	NA	8.9	86.7	8.2	83.6	7.9	NA	NA
California	49.9	10.6	37.8	7.5	^R 52.6	8.8	^R 60.7	10.1
Colorado	NA	NA	NA	NA	NA	NA	95.8	0.6
Connecticut	74.5	59.3	51.6	54.7	55.4	54.7	56.8	62.3
Delaware	100.0	10.1	100.0	12.7	100.0	12.3	100.0	16.4
District of Columbia	32.4	—	31.7	—	NA	—	33.9	—
Florida	94.7	2.4	93.9	2.8	94.7	2.7	96.3	3.2
Georgia	NA	NA	NA	NA	55.3	11.0	60.0	10.9
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	80.4	2.1	82.0	3.4	83.7	2.8	83.3	2.8
Illinois	34.5	7.2	24.5	5.1	26.3	5.3	33.7	6.7
Indiana	NA	NA	NA	^R 9.7	^R 62.4	^R 8.1	NA	^R 8.0
Iowa	71.6	7.2	75.0	7.1	72.2	7.1	76.4	5.9
Kansas	64.4	14.7	53.7	15.2	52.3	12.4	55.9	6.6
Kentucky	82.6	15.7	66.3	16.9	79.7	16.1	80.4	12.9
Louisiana	96.1	8.3	96.4	7.9	96.1	7.3	97.1	6.7
Maine	100.0	87.1	100.0	85.7	100.0	84.1	100.0	87.9
Maryland	20.5	4.2	19.6	4.0	NA	3.9	19.8	4.9
Massachusetts	NA	NA	NA	NA	NA	NA	44.2	NA
Michigan	40.1	4.9	32.0	4.4	37.5	4.5	39.5	4.9
Minnesota	96.3	37.4	89.4	34.3	96.7	36.7	92.1	47.2
Mississippi	94.0	34.5	93.8	33.0	94.1	33.4	94.4	35.2
Missouri	64.7	12.7	65.5	11.7	47.4	11.0	71.0	13.6
Montana	75.3	0.8	68.5	0.5	70.1	1.0	67.9	0.4
Nebraska	60.2	12.3	86.4	12.5	68.6	9.0	63.2	18.1
Nevada	50.2	16.8	35.0	17.1	33.0	18.1	55.6	18.7
New Hampshire	89.6	27.5	80.6	26.3	86.6	26.3	89.1	23.2
New Jersey	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	NA	NA	NA	NA	27.3	5.7	28.9	5.9
New York	NA	29.0	NA	NA	NA	NA	NA	NA
North Carolina	99.2	63.7	87.0	48.9	87.4	56.1	88.0	49.9
North Dakota	82.6	12.0	77.9	^R 11.6	79.6	10.9	77.0	16.4
Ohio	31.6	1.0	NA	NA	30.8	0.6	30.1	1.1
Oklahoma	58.5	3.8	60.6	3.5	57.6	3.4	24.2	4.0
Oregon	98.3	12.2	98.5	2.7	98.8	12.2	98.5	14.1
Pennsylvania	49.2	9.3	45.2	9.4	53.6	10.7	50.3	11.0
Rhode Island	39.9	24.7	16.4	36.2	44.1	28.7	46.8	32.0
South Carolina	99.9	88.1	94.6	81.7	94.7	87.0	94.9	81.2
South Dakota	71.5	26.2	69.8	20.3	73.9	20.7	60.2	33.2
Tennessee	70.8	34.8	76.1	26.7	74.1	28.3	58.7	27.0
Texas	72.8	17.1	74.4	33.3	72.5	25.4	72.4	21.4
Utah	75.4	9.8	74.4	9.2	76.0	8.7	72.9	14.8
Vermont	100.0	69.8	100.0	66.5	100.0	68.6	100.0	68.7
Virginia	59.3	NA	57.7	4.4	62.5	7.9	56.6	5.3
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	35.1	12.8	NA	^R 12.4	33.9	30.2	NA	NA
Wisconsin	60.9	16.2	53.5	15.8	47.7	18.8	51.4	19.9
Wyoming	85.9	NA	73.9	NA	84.3	NA	83.8	3.2
Total	58.1	17.0	53.6	^R17.9	^R56.8	^R17.6	^R58.9	^R16.9

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1999							
	May		April		March		February	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	67.4	15.0	76.0	15.2	76.3	15.9	77.4	16.1
Alaska	58.9	99.9	53.5	99.9	57.5	99.9	53.8	99.9
Arizona	82.5	42.3	82.5	30.5	84.6	26.3	84.6	34.0
Arkansas	NA	8.6	89.6	8.7	90.1	9.6	91.4	10.6
California	^R 49.8	12.7	^R 61.3	12.7	59.5	13.4	^R 59.1	14.4
Colorado	96.7	0.6	NA	0.8	96.7	0.4	93.2	0.3
Connecticut	53.6	55.2	72.9	64.0	67.4	58.6	69.7	67.0
Delaware	100.0	22.4	100.0	17.6	100.0	22.7	100.0	24.0
District of Columbia	39.4	—	43.5	—	53.8	—	52.4	—
Florida	91.6	4.2	92.0	3.4	90.2	4.2	90.9	4.0
Georgia	NA	NA	82.0	6.0	83.0	13.5	81.6	11.3
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	85.5	2.3	87.0	2.6	87.8	2.8	88.8	3.1
Illinois	34.9	6.6	40.9	10.3	47.7	9.1	46.1	10.0
Indiana	NA	NA	NA	NA	NA	NA	79.3	9.2
Iowa	93.5	5.9	77.2	6.2	87.3	7.5	84.7	8.0
Kansas	68.4	NA	69.1	4.9	NA	5.0	NA	5.4
Kentucky	84.4	16.5	83.9	16.3	88.8	16.6	89.2	18.0
Louisiana	96.6	6.4	97.2	7.0	96.2	7.5	95.9	7.8
Maine	100.0	84.4	100.0	75.1	100.0	80.7	100.0	97.3
Maryland	NA	NA	25.1	1.6	NA	9.5	NA	6.5
Massachusetts	54.1	41.5	46.8	NA	67.0	NA	NA	32.3
Michigan	47.1	7.2	58.0	14.2	63.3	16.2	64.5	17.3
Minnesota	96.6	29.3	91.7	37.1	96.5	39.3	96.5	33.8
Mississippi	^R 95.8	38.1	NA	NA	88.4	^R 34.9	96.9	38.2
Missouri	75.8	14.0	81.4	17.2	83.3	24.6	79.1	33.9
Montana	92.8	1.7	77.3	1.7	78.1	1.8	80.1	1.7
Nebraska	59.4	22.4	65.0	64.6	67.6	23.8	63.5	28.7
Nevada	60.2	18.7	63.2	25.4	67.7	28.0	69.2	30.9
New Hampshire	NA	26.2	94.2	27.2	94.5	19.6	95.3	24.1
New Jersey	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	27.2	4.9	40.8	NA	58.1	4.2	52.8	3.6
New York	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina	89.9	50.0	90.7	42.0	55.1	44.4	73.8	43.2
North Dakota	85.3	6.0	86.8	14.5	89.7	13.7	83.6	13.6
Ohio	34.5	1.8	38.7	2.0	48.5	3.6	47.1	3.6
Oklahoma	68.1	3.8	75.7	4.3	79.2	5.0	78.9	5.1
Oregon	98.7	14.1	98.7	15.1	98.7	47.4	99.0	15.8
Pennsylvania	59.1	11.8	56.1	11.1	61.4	12.5	56.4	11.1
Rhode Island	48.9	31.4	56.2	38.8	60.4	50.1	61.5	30.8
South Carolina	95.4	86.1	85.3	72.8	78.0	83.3	97.8	83.0
South Dakota	78.7	38.8	83.2	41.8	84.3	47.4	84.1	50.0
Tennessee	77.6	26.4	NA	NA	83.9	22.5	84.8	23.3
Texas	74.4	NA	75.7	20.5	78.2	16.3	81.3	13.0
Utah	80.1	8.7	83.0	8.0	82.8	8.3	85.7	10.8
Vermont	100.0	68.8	100.0	76.3	100.0	82.2	100.0	81.5
Virginia	NA	NA	55.7	7.4	65.8	15.2	68.2	13.6
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	^R 35.8	11.8	51.4	NA	54.2	NA	54.8	10.1
Wisconsin	62.8	18.3	70.9	21.3	76.6	21.9	78.8	22.7
Wyoming	87.5	3.5	88.6	2.4	88.1	2.9	97.3	4.2
Total	^R 61.1	17.0	^R 64.4	15.8	67.9	^R 16.6	^R 68.8	15.5

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1999		1998					
	January		Total		December		November	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	81.0	18.4	80.5	23.3	75.4	20.5	73.6	23.3
Alaska	59.8	99.9	49.6	99.4	48.8	100.0	51.1	100.0
Arizona	86.3	32.3	85.0	33.5	84.0	33.6	82.9	35.3
Arkansas	93.3	11.7	90.8	9.5	89.0	9.0	86.1	10.2
California	^R 62.3	11.8	48.9	10.4	49.2	11.1	38.8	10.5
Colorado	97.1	0.1	94.3	7.6	95.2	3.3	94.0	4.7
Connecticut	69.6	60.4	68.7	55.8	62.6	61.5	76.1	56.0
Delaware	100.0	18.1	100.0	22.4	100.0	24.8	100.0	23.2
District of Columbia	58.2	—	52.3	—	59.7	—	50.2	—
Florida	91.5	3.6	96.6	7.3	96.0	6.4	95.6	5.8
Georgia	85.4	10.1	83.6	25.3	79.2	22.2	77.4	19.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	—
Idaho	89.4	3.6	86.4	2.6	86.1	3.6	83.9	2.2
Illinois	46.9	10.9	47.4	9.3	45.2	12.3	44.8	10.0
Indiana	79.9	NA	79.2	9.3	82.6	8.6	74.5	8.9
Iowa	86.7	9.2	85.8	6.8	89.4	10.0	84.0	9.7
Kansas	NA	NA	69.5	9.9	61.0	5.7	62.1	5.7
Kentucky	90.3	16.9	87.5	17.8	88.6	23.6	87.1	20.9
Louisiana	96.2	7.5	94.6	9.3	92.2	20.6	94.3	9.6
Maine	100.0	93.8	100.0	87.4	100.0	84.4	100.0	87.3
Maryland	39.3	7.5	36.7	7.0	37.7	10.3	38.3	9.5
Massachusetts	78.5	28.3	57.9	26.3	82.1	25.7	57.8	28.5
Michigan	67.3	16.2	59.7	10.8	64.7	12.0	57.9	10.9
Minnesota	96.6	37.9	97.6	39.7	96.8	39.9	95.9	40.4
Mississippi	NA	NA	94.8	37.6	96.3	38.6	95.5	38.6
Missouri	85.5	26.3	78.3	18.2	79.2	21.9	74.5	18.3
Montana	83.5	2.4	77.1	1.5	77.0	1.5	74.9	1.4
Nebraska	59.8	23.5	72.5	12.7	51.5	20.6	66.5	14.1
Nevada	72.6	31.4	70.3	15.5	69.9	33.2	63.6	27.5
New Hampshire	95.5	24.2	94.1	30.7	95.3	24.4	95.5	21.9
New Jersey	NA	NA	60.5	49.5	59.7	59.4	60.2	55.3
New Mexico	66.7	NA	67.0	9.8	79.0	4.6	70.4	11.0
New York	NA	NA	53.2	8.3	56.7	12.0	53.3	7.7
North Carolina	97.0	41.1	90.6	32.1	90.2	32.7	87.5	34.1
North Dakota	92.4	18.4	83.8	14.6	87.2	18.5	86.2	18.8
Ohio	57.0	4.1	55.1	4.3	50.3	5.2	50.7	4.3
Oklahoma	83.2	5.7	73.2	3.6	71.3	4.9	65.7	3.7
Oregon	99.1	16.9	99.0	14.3	99.1	14.4	99.0	15.1
Pennsylvania	66.5	14.6	56.9	13.1	59.0	13.2	57.1	13.1
Rhode Island	59.4	24.4	59.3	7.4	52.5	7.6	52.2	8.8
South Carolina	97.6	84.8	97.9	86.7	97.1	86.5	96.9	86.5
South Dakota	86.6	51.8	84.2	35.6	84.6	46.5	84.5	45.3
Tennessee	89.7	25.4	87.3	33.1	89.5	33.6	86.9	32.9
Texas	71.0	13.8	81.0	14.1	83.4	12.7	84.4	13.4
Utah	85.8	12.2	82.5	8.6	85.2	9.7	82.2	10.5
Vermont	100.0	81.4	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	76.4	20.7	72.1	12.8	75.8	15.9	72.1	16.9
Washington	NA	NA	86.8	20.1	88.3	25.4	85.0	21.4
West Virginia	49.9	^R 5.4	49.5	6.3	55.3	7.4	50.0	6.6
Wisconsin	80.6	25.4	74.0	22.0	79.2	23.8	74.9	24.4
Wyoming	96.5	4.3	90.5	2.0	97.9	2.1	87.7	2.0
Total	^R 72.7	15.4	67.0	16.1	68.3	17.2	64.5	15.7

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1998							
	October		September		August		July	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	71.5	21.7	76.3	21.5	78.7	20.1	78.6	22.4
Alaska	48.7	100.0	47.3	100.0	48.7	96.4	47.2	96.5
Arizona	79.9	36.7	83.7	33.3	83.0	32.7	84.4	32.9
Arkansas	81.5	10.4	82.4	9.6	84.9	8.0	86.1	7.2
California	37.5	11.1	33.2	8.7	29.0	8.0	36.4	9.2
Colorado	87.5	6.6	93.2	5.6	91.1	8.9	92.0	9.4
Connecticut	61.3	51.9	55.2	57.5	58.0	49.3	62.3	54.9
Delaware	100.0	18.2	100.0	17.9	100.0	11.5	100.0	18.1
District of Columbia	37.8	—	36.8	—	35.7	—	40.7	—
Florida	96.0	5.6	96.4	6.5	96.4	10.2	96.1	7.2
Georgia	74.6	19.6	73.6	28.4	71.5	15.0	71.5	11.5
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	75.3	2.6	80.6	2.5	83.3	3.5	84.2	2.7
Illinois	40.7	9.0	37.3	7.7	36.5	6.6	27.8	5.4
Indiana	69.0	8.1	57.3	6.8	70.2	5.5	59.1	6.8
Iowa	77.4	6.8	77.0	5.7	82.1	5.7	72.4	5.2
Kansas	60.3	7.2	57.9	14.1	61.8	14.2	60.8	16.7
Kentucky	82.3	15.9	81.9	14.7	79.1	14.1	76.5	18.5
Louisiana	93.9	8.8	94.4	9.1	94.5	7.7	94.2	7.1
Maine	100.0	87.0	100.0	87.3	100.0	85.9	100.0	84.3
Maryland	25.2	8.6	23.0	3.9	22.7	7.2	22.2	2.8
Massachusetts	45.1	27.8	80.7	19.3	49.6	19.8	46.4	18.4
Michigan	47.8	6.5	42.5	6.3	37.5	4.8	39.6	5.6
Minnesota	97.9	37.1	99.3	36.7	99.0	35.3	98.8	36.6
Mississippi	95.3	37.4	94.8	34.0	97.1	37.3	95.2	35.2
Missouri	66.6	12.8	70.1	13.1	44.5	12.6	66.2	14.6
Montana	70.5	1.0	64.2	0.6	68.6	0.8	67.7	0.4
Nebraska	80.4	13.0	74.5	10.2	82.0	7.6	66.3	4.2
Nevada	62.6	25.5	55.5	19.1	55.2	17.7	65.2	3.6
New Hampshire	93.1	21.5	91.9	21.5	82.4	25.8	89.0	34.9
New Jersey	53.3	52.7	54.8	52.5	57.9	51.0	55.7	41.9
New Mexico	58.3	8.9	52.1	13.2	52.4	15.5	53.2	18.7
New York	50.2	10.7	43.3	6.9	43.2	8.2	43.2	6.3
North Carolina	83.2	27.1	84.9	23.4	86.2	27.3	85.8	33.3
North Dakota	80.7	20.5	68.1	13.1	67.2	8.5	80.4	11.1
Ohio	56.3	2.6	44.9	2.2	36.3	1.4	48.0	2.0
Oklahoma	60.5	1.9	59.7	1.9	59.5	1.9	61.8	2.1
Oregon	98.4	11.8	98.7	11.6	98.6	11.8	98.9	12.4
Pennsylvania	53.1	11.3	54.2	11.8	46.3	11.7	50.1	12.2
Rhode Island	48.1	6.6	48.1	6.3	100.0	6.5	47.3	5.7
South Carolina	96.9	87.4	97.2	88.2	97.2	88.0	97.7	87.4
South Dakota	95.8	40.1	73.7	22.1	74.9	18.3	75.5	22.7
Tennessee	76.2	21.4	75.5	32.2	72.6	32.3	73.0	32.4
Texas	71.8	14.9	78.9	14.9	76.7	14.1	72.4	12.4
Utah	80.1	9.9	77.6	8.9	71.6	8.4	70.6	7.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	63.5	9.5	59.0	7.6	50.7	13.0	70.0	8.7
Washington	85.8	31.6	86.0	17.2	84.0	15.1	82.1	16.3
West Virginia	38.6	5.9	36.2	6.8	31.7	6.4	30.4	5.7
Wisconsin	71.1	19.0	45.5	18.0	48.5	14.7	47.6	14.7
Wyoming	83.8	2.2	84.9	2.4	92.6	2.6	84.9	2.3
Total	59.2	14.8	57.0	14.2	53.3	13.8	56.0	13.1

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1998							
	June		May		April		March	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	80.9	23.0	81.7	22.4	83.0	23.8	83.5	27.0
Alaska	45.4	100.0	47.8	100.0	49.5	100.0	49.9	100.0
Arizona	86.4	33.8	83.6	35.9	85.2	32.8	86.9	34.1
Arkansas	86.8	8.3	88.8	9.9	93.0	9.3	94.0	10.4
California	58.4	10.8	53.9	11.3	58.3	10.5	75.5	16.0
Colorado	91.6	9.9	95.0	10.1	95.8	8.4	96.1	8.9
Connecticut	61.0	50.7	76.2	53.5	62.2	59.8	71.1	57.3
Delaware	100.0	19.7	100.0	19.9	100.0	23.8	100.0	29.2
District of Columbia	42.2	—	48.0	—	52.8	—	60.4	—
Florida	96.6	7.4	96.9	5.9	97.5	7.8	96.8	8.2
Georgia	80.9	29.3	83.7	29.9	86.3	28.7	88.8	32.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	85.6	1.8	85.7	2.2	86.7	2.2	88.3	2.0
Illinois	43.2	5.7	35.7	7.4	45.0	9.9	57.8	11.3
Indiana	69.8	6.2	75.8	7.6	78.9	10.8	88.3	13.7
Iowa	73.6	4.8	88.9	4.5	84.4	5.6	87.3	6.8
Kansas	56.3	13.6	70.9	10.4	71.3	7.3	78.4	7.2
Kentucky	82.2	16.8	84.8	17.6	86.2	17.5	90.4	16.4
Louisiana	95.4	7.3	95.8	7.9	98.0	7.9	94.6	8.0
Maine	100.0	88.1	100.0	84.3	100.0	84.0	100.0	85.7
Maryland	24.3	5.2	26.8	8.1	32.1	2.6	45.6	8.5
Massachusetts	42.2	18.8	48.9	31.1	56.2	29.2	61.0	30.2
Michigan	42.3	6.1	44.3	7.5	60.1	12.1	65.7	15.0
Minnesota	99.2	43.0	99.5	36.3	99.1	39.6	98.3	48.9
Mississippi	95.9	38.1	94.6	37.4	94.1	37.0	90.3	38.1
Missouri	67.3	13.0	76.4	14.5	82.3	17.9	83.5	22.3
Montana	66.7	0.5	72.1	0.8	76.4	1.4	80.5	2.2
Nebraska	67.1	9.9	74.6	10.9	72.1	16.0	77.9	18.2
Nevada	70.0	4.2	71.0	4.4	72.9	5.3	75.1	6.5
New Hampshire	90.9	32.7	94.2	38.9	95.5	44.6	93.0	36.1
New Jersey	59.2	43.4	51.7	42.6	60.1	46.6	66.9	46.5
New Mexico	46.7	14.1	54.6	11.1	62.1	7.2	70.6	1.6
New York	49.8	6.2	48.2	5.4	53.6	8.9	59.0	8.2
North Carolina	85.1	30.9	88.8	33.9	92.1	38.7	92.5	33.5
North Dakota	81.7	10.5	78.8	6.4	79.6	13.2	86.7	18.2
Ohio	45.6	2.2	42.3	2.6	54.9	4.6	61.1	5.4
Oklahoma	61.9	2.3	69.6	3.0	75.4	5.1	76.4	5.4
Oregon	99.0	14.7	98.8	15.7	98.9	14.1	99.1	16.9
Pennsylvania	52.7	12.5	53.1	12.9	58.5	13.0	60.2	13.3
Rhode Island	52.2	6.3	57.4	6.5	58.1	7.5	63.6	11.7
South Carolina	97.8	88.1	98.4	87.6	98.6	85.9	98.4	84.7
South Dakota	73.0	25.2	66.0	17.1	93.7	60.2	85.7	42.8
Tennessee	75.9	35.6	82.4	32.6	81.6	38.9	95.9	36.8
Texas	84.3	15.2	77.6	14.2	80.4	14.6	81.3	15.0
Utah	75.6	8.8	73.6	8.6	82.5	7.7	81.2	8.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	68.0	9.4	70.9	12.5	71.5	10.2	74.4	19.1
Washington	80.4	23.1	80.7	9.3	84.1	16.3	88.7	18.7
West Virginia	32.4	5.7	36.3	5.9	55.2	6.2	55.0	6.3
Wisconsin	55.5	17.3	55.6	17.0	75.5	21.5	79.8	26.0
Wyoming	86.2	2.3	90.8	1.6	92.8	2.3	89.0	1.9
Total	62.9	15.1	62.6	14.9	67.7	15.8	73.6	17.3

^R Revised Data.

^{NA} Not Available.

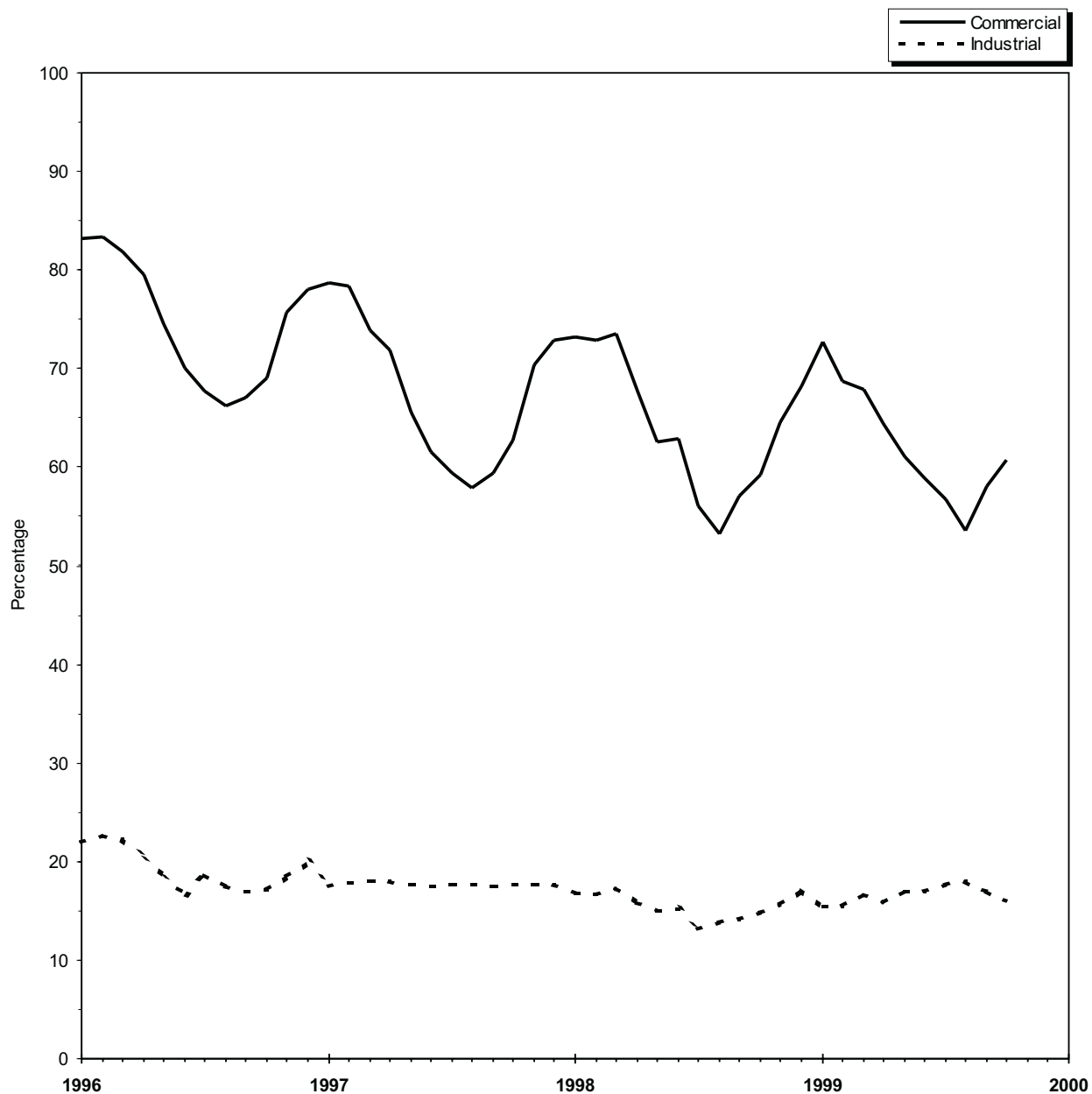
— Not Applicable.

Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and

industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1996-1999



Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 26. Gas Home Customer-Weighted Heating Degree Days

Census Divisions	November 1 through November 30					December 1 through December 31				
	Normal ^a	1999	1998	Percent Change		Normal ^a	1999	1998	Percent Change	
				Normal to 1999	1998 to 1999				Normal to 1999	1998 to 1999
New England										
CT, ME, MA, NH, RI, VT	693	711	608	-12.3	-14.5	1,073	907	952	-11.3	5.0
Middle Atlantic										
NJ, NY, PA	646	618	536	-17.0	-13.3	1,010	818	899	-11.0	9.9
East North Central										
IL, IN, MI, OH, WI	730	642	592	-18.9	-7.8	1,142	956	1,051	-8.0	9.9
West North Central										
IA, KS, MN, MO, ND, NE, SD	788	673	564	-28.4	-16.2	1,235	1,084	1,054	-14.7	-2.8
South Atlantic										
DE, FL, GA, MD and DC, NC, SC, VA, WV	421	391	358	-15.0	-8.4	696	575	648	-6.9	12.7
East South Central										
AL, KY, MS, TN	431	362	350	-18.8	-3.3	717	617	667	-7.0	8.1
West South Central										
AR, LA, OK, TX	280	214	197	-29.6	-7.9	534	509	470	-12.0	-7.7
Mountain										
AZ, CO, ID, MT, NV, NM, UT, WY	715	651	546	-23.6	-16.1	1,006	1,008	933	-7.3	-7.4
Pacific ^b										
CA, OR, WA	341	382	309	-9.4	-19.1	519	577	471	-9.2	-18.4
U.S. Average ^b	559	514	452	-19.1	-12.1	881	781	796	-9.6	1.9

Cumulative November 1 through December 31					
Normal ^a	1998	1999	Percent Change		
			Normal to 1999	1998 to 1999	
New England					
CT, ME, MA, NH, RI, VT	1,766	1,812	1,618	-8.4	-10.7
Middle Atlantic					
NJ, NY, PA	1,656	1,677	1,436	-13.3	-14.4
East North Central					
IL, IN, MI, OH, WI	1,872	1,881	1,599	-14.6	-15.0
West North Central					
IA, KS, MN, MO, ND, NE, SD	2,023	1,982	1,757	-13.1	-11.4
South Atlantic					
DE, FL, GA, MD and DC, NC, SC, VA, WV	1,117	1,227	967	-13.4	-21.2
East South Central					
AL, KY, MS, TN	1,148	1,324	979	-14.7	-26.1
West South Central					
AR, LA, OK, TX	814	949	692	-15.0	-27.1
Mountain					
AZ, CO, ID, MT, NV, NM, UT, WY	1,721	1,776	1,659	-3.6	-6.6
Pacific ^b					
CA, OR, WA	860	780	959	11.5	22.9
U.S. Average ^b	1,440	1,466	1,292	-10.3	-11.9

^a Normal is based on calculations of data from 1961 through 1990.

^b Excludes Alaska and Hawaii.

Note: See Appendix A, Explanatory Note 10 for discussion of Heating Degree-Days computations.

Sources: National Oceanic and Atmospheric Administration.

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the *Short-Term Energy Outlook*.

For production, total supply and disposition, and storage data (Tables 1, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

Note 1. Nonhydrocarbon Gases Removed

Annual Data

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting volumes greater than zero are

Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mexico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

Final Monthly Data

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

Note 2. Supplemental Gaseous Fuels

Annual Data

Annual data are published from Form EIA-176.

Preliminary Monthly Data

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

Note 3. Production

Annual Data

Natural gas production data are collected from 33 gas-producing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

Estimated Monthly Data

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring, and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for nonhydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final

monthly data filed on Form EIA-895 for the previous year.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

Final Monthly Data

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

Note 4. Imports and Exports

Annual Data and Final Monthly Data

Annual and final monthly data are published from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

Preliminary Monthly Data - Imports

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.

Preliminary Monthly Data - Exports

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publica-

tions. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

Note 5. Consumption

All Annual Data

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

Total Consumption

Preliminary Monthly Data

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

Residential, Commercial, and Industrial Sector Consumption

Preliminary Monthly Data

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C, "Statistical Considerations," for a detailed explanation of sample selection and estimation procedures.

Average Price of Deliveries to Consumers

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average

prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

Agricultural Use

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

Electric Utility Sector Consumption

All Monthly Data

Monthly data published are from Form EIA-759.

Pipeline Fuel Consumption

Preliminary Monthly Data

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary Monthly Data

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

Note 6. Extraction Loss

Annual Data

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production.

This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

Note 7. Natural Gas Storage

Underground Natural Gas Storage

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

Underground and Liquefied Natural Gas Storage

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

Types of Underground Storage Facilities

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt "bed" or "dome" formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility's daily deliverability or withdrawal capability is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the

working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

Note 8. Average Wellhead Value

Annual Data

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

Preliminary Monthly Data

Preliminary values for the monthly U.S. Natural gas wellhead price are estimated from the prevailing cash market prices at 5 major trading hubs: Henry Hub, LA; Carthage, TX; Katy, TX; Waha, TX; and Blanco, NM. These prices appear initially in the trade publication, *Natural Gas Week*, and they reflect the spot delivered-to-pipeline, volume-weighted average prices for natural gas bought and sold at the specified trading hubs. Prices include processing, gathering, and transportation fees to the hubs. The estimated wellhead prices are derived with a statistical procedure based on analysis of monthly time series data for the period 1995 through 1997. The preliminary estimates are replaced when annual survey data become available. This procedure was adopted beginning with publication of the February

1999 issue of the *Natural Gas Monthly* and it affects price estimates from January 1998 to the present.

Final Monthly Data

The Form EIA-895 requests State agencies to report monthly values of marketed production. Preliminary monthly gas price data are replaced by these final monthly data.

Note 9. Balancing Item

The "balancing item" category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents.

Annual Data

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

Note 10. Heating Degree-Days

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several de-

gree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the Natural Gas Monthly is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures re-

corded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home customers. The State figures are then aggregated into Census Divisions and into the national average.

Appendix B

Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and five monthly surveys.

The annual report is the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines.

The monthly reports include two surveys of the natural gas industry, two surveys of the electric utility industry, and a voluntary survey completed by energy or conservation agencies in the gas producing States. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 is filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"

Survey Design

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas. form was approved for use beginning with report year 1990.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

Survey Universe and Response Statistics

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and /or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1999 for report year 1998 totaled 1,910 questionnaire packages. To this original mailing, 5 names were added and 32 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,883 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents follow-up, 1,883 responses were entered into the data base, and there were 50 nonrespondents.

Summary of Form EIA-176 Data Reporting Requirements

The EIA-176 is a multi-line schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Routine Form EIA-176 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

Other EIA Publications Referencing Form EIA-176

Data from Form EIA-176 are also published in the *Natural Gas Annual*.

Form-627 and Form EIA-895

Survey Design

Beginning with 1980 data, natural gas production data previously obtained on an informal basis from the appropriate State agencies were collected on the Form EIA-627, "Annual Quantity and Value of Natural Gas Report." This form was designed by the EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. It was also designed to avoid duplication of the efforts involved in the collection of production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

In 1993, the Office of Management and Budget approved the Form EIA-627 for use in report years 1994 through 1996. In 1994, the IOGCC decided to discontinue collection of their form. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." All gas producing States are requested to report on the Form EIA-895; a voluntary report. In 1996, an annual schedule was added to the voluntary Form EIA-895 to replace the Form EIA-627. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Survey Universe and Response Statistics

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts. EIA-895 survey by fil-

ing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

Of the 33 natural gas producing states, 31 participated in the voluntary EIA-895 survey by filing the completed form or by responding to telephone contacts. Data for the 2 nonresponding States (Illinois and West Virginia) were estimated. Data on the quantities of nonhydrocarbon gases removed in 1998 were reported by the appropriate agencies of 22 of the 33 producing States. These 22 States accounted for 66 percent of total 1998 gross withdrawals. In addition, the gross withdrawal data from Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 39 percent of total production, excluded all or most of the nonhydrocarbon gases removed on leases. The State of Missouri reported zero gross withdrawals.

The commercial recovery of methane from coalbeds contribute a significant amount to the production totals in a number of States. Coalbed methane seams production quantities (in million cubic feet) are included in gross withdrawals totals for the following States: Alabama (116,946), Colorado (387,376), and New Mexico (608,000).

Summary of Data Reporting Requirements

The Form EIA-895 is a two-page form divided into five parts. Part I requests identifying information including the name and location of the responding State agency and the name and telephone number of a contact person within the agency. Part II collects monthly data on the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; and marketed production. Part III of the form is for reporting the monthly volume and value of marketed production. Part IV of the form is the annual schedule which collects data on the

number of producing gas wells, the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; marketed production; the value of marketed production; and quantity of marketed production (value based). Part V is space to be used by the respondent to explain data elements reported that may be based on definitions differing from those applied to data in previous years.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

Routine Form EIA-895 Edit Checks

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

Other EIA Publications Referencing Form EIA-895

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

EIA-191 Survey, "Underground Natural Gas Storage Report"

Survey Design

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 is a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/ FEA-G-318 system. The data received on both the FPC-8 and

FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

Survey Universe and Response Statistics

The 114 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

Summary of EIA-191 Data Reporting Requirements

The EIA-191 monthly schedule contains current month and prior month's data on the total quantities of gas in storage, injections and withdrawals, the location (including State and county, field, reservoir) and peak day withdrawals during the reporting period. Prior month's data are required only when data are revised. Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are reflected in the prior month section of the monthly form. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

Routine Form EIA-191 Edit Checks

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to re-file reports containing any inconsistencies or errors.

Other EIA Publications Referencing Form EIA-191

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

"Quarterly Natural Gas Import and Export Sales and Price Report"

Survey Design

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.

Beginning in 1995, import and export data are taken from the "Quarterly Natural Gas Import and Export Sales and Price Report." This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas.

Survey Universe and Response Statistics

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different. Prior to 1995, the Form FPC-14 was filed annual by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export were originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

Routine Edit Checks

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"

Survey Design

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

Survey Universe and Response Statistics

A sample of approximately 400 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is

eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

Summary of Form EIA-857 Data Reporting Requirements

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

Routine Form EIA-857 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.

Appendix C

Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas to residential, commercial and industrial consumers presented in this report by State are estimated from data reported on the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as local distribution companies. The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by State to three consumer sectors—residential, commercial, and industrial. Monthly deliveries and prices of natural gas to electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

Sample Universe. The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 who reported sales or deliveries to consumers in the residential, commercial or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

Sampling Plan. The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata—companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

Certainty Stratum. Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were selected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors—the industrial

and the combined residential/commercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value (C_j) were included in the certainty stratum. The formula for C_j was:

$$C_j = \frac{X_{.j}}{2n} \quad (1)$$

where:

C_j = cutoff value for consumer sector j ,

n = target sample size to be selected for the State, 25 percent of the companies in the State,

X_{ij} = the annual volume of natural gas deliveries by company i to customers in consumer sector j ,

$X_{.i}$ = the sum within State of annual gas volumes for company i ,

$X_{.j}$ = the sum within State of annual gas volumes in consumer sector j ,

$X_{..}$ = the sum within State of annual gas volumes in all consumer sectors.

Noncertainty Stratum. All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors ($X_{.i}$). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2.

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X_2}{X_{..}} \quad (2)$$

where:

m = the sample size for the noncertainty stratum within a State,

X_2 = the sum within State of the $X_{.i}$ for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using.

A uniform random number R was selected between zero and $\left(I = \frac{X_2}{m} \right) I$. The first sampled company was

the first company on the list to have a cumulative measure of size greater than R . The second company selected was the first company on the list to have a cumulative measure of size greater than $R + I$. $R + I$ was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

Subgroups. In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that X_2 was the sum within State of the $X_{.i}$ for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

Estimation Procedures

Estimates of Volumes. A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled. The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator (E_{vj}) for the volume of gas in consumer sector j is:

$$E_{vj} = \frac{Y_{.j}}{Y'_{.j}} \quad (3)$$

where:

$Y_{.j}$ = the sum within State of annual gas volumes in consumer sector j for all companies,

$Y'_{.j}$ = the sum within State of annual gas volumes in consumer sector j for those companies in the sample.

The ratio estimator is applied as follows:

$$V_{.j} = y_{.j} \times E_{vj} \quad (4)$$

where:

$V_{.j}$ = the State estimate of monthly gas volumes in consumer sector j ,

$y_{.j}$ = the sum within State of reported monthly gas volumes in consumer sector j .

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

The price of natural gas for a State within a sector is calculated as follows:

$$P_j = \frac{R_j}{V_j}$$

where:

P_j = the average price for gas sales within the State in consumer sector j ,

R_j = the reported revenue from natural gas sales within the State in consumer sector j ,

V_j = the reported volume of natural gas sales within the State in consumer sector j .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the account of others to these consumer sectors are not included in the State or national average prices.

Table 25 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

Estimation for Nonrespondents. A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_t = F_{t-1} \times \frac{y_{.jt}}{y_{.jt-1}} \quad (5)$$

where:

F_t = imputed gas volume for current month t ,

F_{t-1} = gas volume for the company for the previous month,

y_{jt} = gas volume reported by companies in the State stratum for report month t,

$y_{j,t-1}$ = gas volume in the previous month for companies in the State stratum that reported in month t.

Final Revisions

Adjusting Monthly Data to Annual Data. After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*. The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the *Natural Gas Monthly*, are used to derive an updated estimate of monthly consumption and revenues for each State's residential, commercial, or industrial natural gas consumption.

For each State, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V^*_{jm} = V_{jm} + \left[(V_{ja} - V'_{jm}) \left(\frac{V_{jm}}{V'_{jm}} \right) \right] \quad (6)$$

where:

V^*_{jm} = the final volume estimate for month m in consumer sector j,

V_{jm} = the estimated volume for month m in consumer sector j,

V_{ja} = the volume for the year reported on Form EIA-176,

V'_{jm} = The annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R^*_{jm} = R_{jm} + \left[(R_{ja} - R'_{jm}) \left(\frac{R_{jm}}{R'_{jm}} \right) \right] \quad (7)$$

where:

R^*_{jm} = the final revenue estimate for month m in consumer sector j,

R_{jm} = the estimated revenue for month m in consumer sector j,

R_{ja} = the revenue for the year reported on Form EIA-176,

R'_{jm} = The annual sum of estimated monthly revenues. Revision of Volumes and Prices for Deliveries to Electric Utilities. Revisions to monthly electric utilities data are published throughout the year as they become available.

Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

Standard Errors. A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two

standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^H \left[N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h(n_h - 1)} \left(\sum_{i=1}^{n_h} (y_i - Tx_i)^2 \right) \right] \quad (8)$$

where:

H = the total number of strata

N_h = the total number of companies in stratum h

n_h = the sample size in stratum h

y_i = the reported monthly volume for company i

x_i = the reported annual volume for company i

T = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, October 1999

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	146	397	4,566	4,586	0.40	1.18	0.43
Alaska	0	0	0	0	—	—	—
Arizona	27	65	0	71	0.21	0.01	—
Arkansas	NA	NA	35	NA	NA	NA	0.15
California	178	86	1,396	1,410	0.04	0.05	0.22
Colorado	NA	NA	NA	NA	NA	NA	NA
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	24	178	1,370	1,382	0.60	0.27	0.24
Georgia	NA	NA	NA	NA	NA	NA	NA
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	748	712	2,180	2,412	0.15	0.66	1.53
Indiana	NA	NA	NA	NA	NA	NA	NA
Iowa	31	16	14	37	0.06	0.03	0.19
Kansas	1,678	406	237	1,743	1.01	1.26	0.28
Kentucky	417	369	453	718	0.25	0.29	1.15
Louisiana	19	34	4,603	4,604	0.05	0.05	0.02
Maine	0	0	0	0	—	—	—
Maryland	5	14	11	18	—	0.02	0.02
Massachusetts	NA	NA	NA	NA	NA	NA	NA
Michigan	137	90	1,574	1,583	0.05	0.03	0.13
Minnesota	365	365	497	717	0.11	0.16	0.23
Mississippi	NA	57	616	622	NA	0.08	0.86
Missouri	231	20	1,666	1,682	0.03	0.10	2.04
Montana	21	21	0	29	0.07	0.05	—
Nebraska	32	31	16	48	0.09	0.06	0.03
Nevada	0	0	0	0	—	—	—
New Hampshire	0	0	0	0	—	—	—
New Jersey	NA	NA	NA	NA	NA	NA	NA
New Mexico	NA	NA	NA	NA	NA	NA	NA
New York	NA	NA	NA	NA	NA	NA	NA
North Carolina	59	43	375	382	0.13	0.03	1.18
North Dakota	0	0	0	0	—	—	—
Ohio	964	6,386	6,053	8,852	0.39	0.07	0.11
Oklahoma	439	181	1,041	1,144	0.34	0.16	0.54
Oregon	0	0	0	0	—	—	—
Pennsylvania	15	20	1,341	1,342	0.01	0.03	0.51
Rhode Island	0	0	0	0	—	—	—
South Carolina	27	35	956	957	0.97	0.22	0.06
South Dakota	0	0	0	0	—	—	—
Tennessee	155	240	2,701	2,716	0.48	0.09	0.57
Texas	29	2,382	0	2,382	0.02	0.65	—
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	148	375	216	457	0.31	0.20	0.77
Washington	NA	NA	NA	NA	NA	NA	NA
West Virginia	40	736	511	897	0.28	0.67	0.35
Wisconsin	135	158	502	543	0.05	0.08	0.15
Wyoming	16	126	NA	NA	0.35	0.63	NA
Total	2,868	7,728	13,591	15,895	0.09	0.12	0.16

NA Not Available.
— Not Applicable.

Source: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Appendix D

Natural Gas Reports and Feature Articles

Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids

- *Natural Gas Annual 1995*, DOE/EIA-0131(95), November 1996.
- *Natural Gas Annual 1993 Supplement: Company Profiles*, DOE/EIA-0131(93/S), February 1995.
- *Natural Gas 1996 Issues and Trends*, DOE 0560(96), December 1996.

Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources

- *Monthly Energy Review*, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- *Natural Gas 1995: Issues and Trends*, DOE/EIA-0560(95), November 1995.
- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report*, DOE/EIA-0216(95)/Advance Summary, October 1996.
- *Annual Energy Review 1995*, DOE/ EIA-0384(95), July 1996. Published annually.
- *Annual Report to Congress 1995* DOE/EIA-01733(95), July 1996. Published annually.
- *Annual Energy Outlook 1996*, DOE/ EIA-0383(96), January 1996. Published annually.

Selected One-Time Natural Gas and Related Reports

- *The Value of Underground Storage in Today's Natural Gas Industry*, DOE/EIA-0591, March 1995.
- *Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995*, DOE/EIA-0542(95), July 1994.
- *Largest U.S. Oil and Gas Fields*, DOE/EIA-TR-0567, August 1993.
- *Energy Policy Act Transportation Rate Study*, DOE/EIA-0571, October 1993.
- *Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates*, DOE/EIA-0602, October 1995.

Selected and Recurring Natural Gas and Related Data Reference Reports

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(95), January 1996.
- *Oil and Gas Field Code Master List, 1995*, EIA-0370(95), December 1996.

Feature Articles

May 1997

Restructuring Energy Industries: Lessons from Natural Gas

(Compares and contrasts the natural gas and electric power industries.)

July 1997

Intricate Puzzle of Oil and Gas “Reserves Growth”

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

Natural gas Residential Pricing Developments During the 1996-97 Winter

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

December 1997

Recent Trends in Natural Gas Spot Prices

(Focuses primarily on conditions and developments in the East Consuming Region and their connection to prices at the Henry Hub in the Producing Region.)

March 1998

EIA Corrects Errors in EIA’s Drilling Activity Estimates Series

(Discusses and corrects errors in EIA’s monthly and annual estimates of oil and gas drilling activity.)

July 1998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

April 1999

Natural Gas 1998: Issues and Trends - Executive Summary

(Examines the current natural marketplace from a series of vantage points.)

Special Focuses

January 1997

Natural Gas Productive Capacity

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

Outlook for Natural Gas Through 2015

(Presents an outlook for natural gas through 2015.)

August 1997

Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

September 1997

Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report - Advance Summary

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

May 1998

Deliverability on the Interstate Natural Gas Pipeline System

(Examines the capability of the interstate pipeline network to move gas to various U.S. markets and discusses changes occurring since 1990.)

Special Reports

March 1997

Natural Gas Analysis and Geographic Information Systems

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

April 1997

Natural Gas Pipeline and System Expansions

(Examines recent expansions to the North American natural gas)

Natural Gas 1996: Highlights

(Reviews data for 1996 based on Energy Information Administration surveys.) pipeline network.)

July 1997

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

U.S. Natural Gas Imports and Exports - 1996

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

September 1997

U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)

October 1997

Comparison of Natural Gas Storage Estimates from the EIA and AGA

(Compares EIA and AGA estimates from January 1994 through July 1997.)

April 1998

Natural Gas 1997: A Preliminary Summary

(Reviews data for 1997 based on Energy Information Administration surveys.)

July 1998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1998

U.S. Natural Gas Imports and Exports - 1997

(Contains final 1997 data on all U.S. imports and exports of natural gas.)

April 1999

Natural Gas 1998: A Preliminary Summary

(Reviews data for 1998 based on Energy Information Administration surveys.)

July 1999

Retail Unbundling

(This report provides a brief summary of the status of retail unbundling programs.)

August 1999

U.S. Natural Gas Imports and Exports - 1998

(Contains final 1998 data on all U.S. imports and exports of natural gas.)

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1,2,3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202)586-6119
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202)586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202)586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202)586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Ann Ducca (202)586-6137
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202)586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202)586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202)586-4790
Summary of Natural Gas Imports and Exports	5,6	Monthly:	Quarterly Natural Gas Import and Export Sales and Price Report	Ann Ducca (202)586-6137
Producer Related Activities: Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202)586-6119
Underground Storage:	9,10,11, 12,13,14	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Carol Jones (202) 586-6168
Distribution and Consumption: Deliveries to: Residential, Commercial, Industrial, Electric Utility, All Consumers	15 16 17 18 19	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202)586-4790
Average Price to: City Gate, Residential, Commercial, Industrial, Electric Utility Onsystem Sales	20 21 22 23 24 25	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202)586-4790
Heating Degree Days	26	Seasonal:	National Oceanic and Atmospheric Administration	Roy Kass (202)586-4790
Highlights				Patricia Wells (202)586-6077
				Mary Carlson (202)586-4749

Glossary

Balancing Item: Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The heat required to raise the temperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

City-gate: A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

Commercial Consumption: Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

Depletion: The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

Depreciation: The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

Dry Natural Gas Production: Marketed production less extraction loss.

Electric Utility Consumption: Gas used as fuel in electric utility plants.

Exports: Natural gas deliveries out of the continental United States and Alaska to foreign countries.

Extraction Loss: The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Flared: The volume of gas burned in flares on the base site or at gas processing plants.

Gross Withdrawals: Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Independent: Producers: Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

Industrial Consumption: Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

Interstate Companies: Natural gas pipeline companies subject to FERC jurisdiction.

Intransit Deliveries: Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

Intransit Receipts: Receipts of foreign gas for transportation across U.S. territory and redelivery to a

foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

Intrastate Companies: Companies not subject to FERC jurisdiction.

Lease and Plant Fuel: Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

Natural Gas: A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Onsystem Sales: Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Repressuring: The injection of gas into oil or gas formations to effect greater ultimate recovery.

Residential Consumption: Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

Salt Cavern Storage Field: A storage facility that is a cavern hollowed out in either a salt "bed" or "dome" formation.

Storage Additions: The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

Therm: One-hundred thousand British thermal units.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vented Gas: Gas released into the air on the base site or at processing plants.

Wellhead Price: Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

Working (Top Storage) Gas: The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.